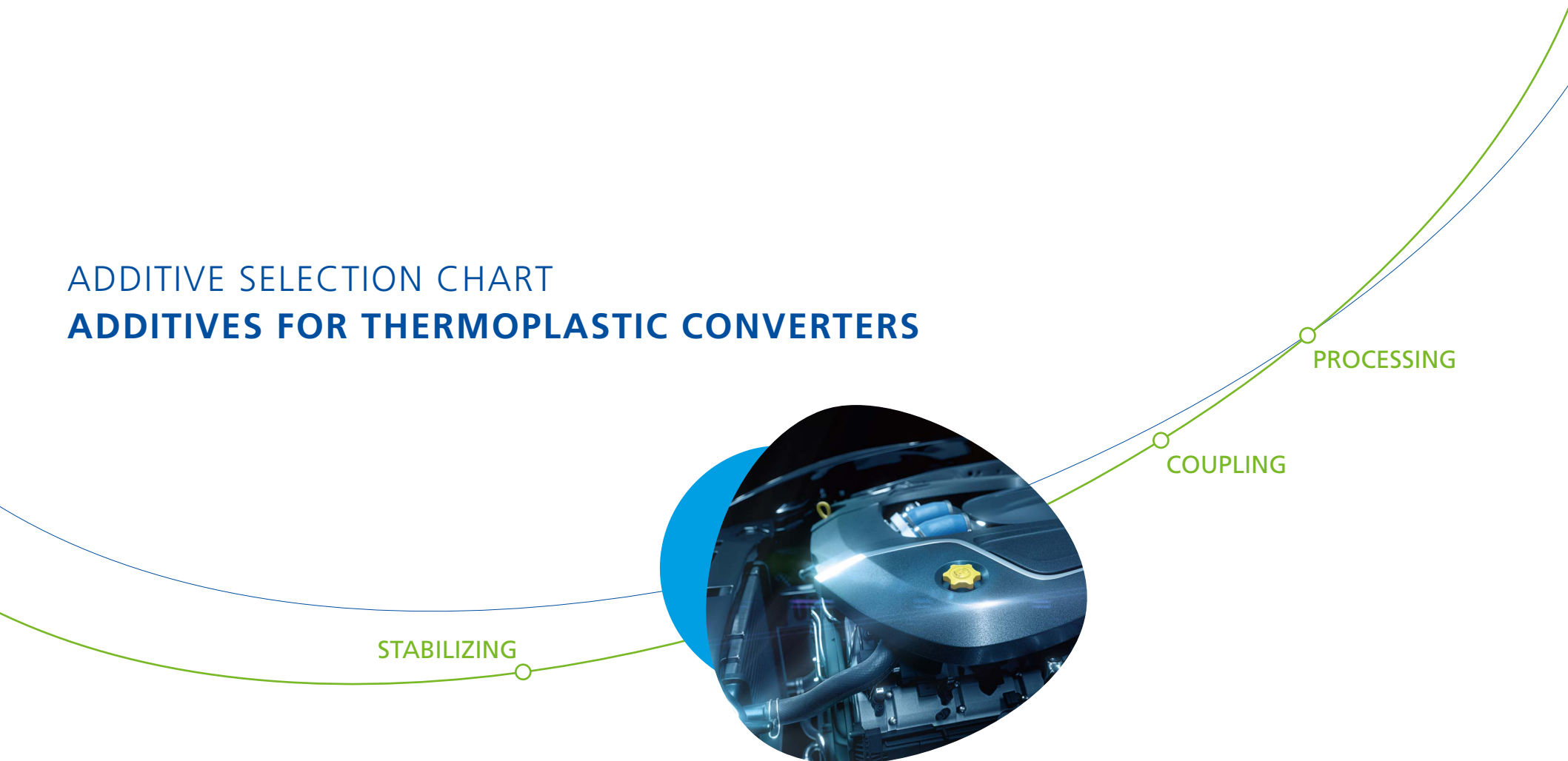


## ADDITIVE SELECTION CHART **ADDITIVES FOR THERMOPLASTIC CONVERTERS**





## Polyethylene

| Application          | Natural fiber reinforced                                                             | Mineral-filled                                                                       | Glass fiber reinforced                                                               | Pigment-filled                                                                       | Non-reinforced                                                                       |
|----------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Coupling             | SCONA TPPE 1102 GALL ●<br>SCONA TSPE 2102 GAHD ●<br>SCONA 12031 ○                    | SCONA TPPE 1102 GALL ●<br>SCONA TSPE 2102 GAHD ●<br>SCONA 12031 ○                    | SCONA TPPE 1102 GALL ●<br>SCONA TSPE 2102 GAHD ●<br>SCONA 12031 ○                    |                                                                                      |                                                                                      |
| Odor reduction       | BYK-MAX OR 4207 ●                                                                    | BYK-MAX OR 4207 ●                                                                    | BYK-MAX OR 4207 ●                                                                    | BYK-MAX OR 4207 ●                                                                    | BYK-MAX OR 4207 ●                                                                    |
| Scratch resistance   | BYK-MAX ASC 4181 ●                                                                   | BYK-MAX ASC 4181 ●                                                                   | BYK-MAX ASC 4181 ●                                                                   | BYK-MAX ASC 4181 ●                                                                   | BYK-MAX ASC 4181 ●                                                                   |
| Flame retardancy     | BYK-MAX FR 4143 ●                                                                    | BYK-MAX FR 4143 ●                                                                    | BYK-MAX FR 4143 ●                                                                    | BYK-MAX FR 4143 ●                                                                    | BYK-MAX FR 4143 ●                                                                    |
| Light stabilization  | RECYCLOBYK 4372 ●                                                                    | RECYCLOBYK 4372 ●                                                                    | RECYCLOBYK 4372 ●                                                                    | RECYCLOBYK 4372 ●                                                                    | RECYCLOBYK 4372 ●                                                                    |
| Heat stabilization   | RECYCLOBYK 4371 ●<br>RECYCLOBYK 4370 ○                                               | RECYCLOBYK 4371 ●<br>RECYCLOBYK 4370 ○                                               | RECYCLOBYK 4371 ●<br>RECYCLOBYK 4370 ○                                               | RECYCLOBYK 4371 ●<br>RECYCLOBYK 4370 ○                                               | RECYCLOBYK 4371 ●<br>RECYCLOBYK 4370 ○                                               |
| Nucleation           | BYK-MAX NU 4230 LDPE ●                                                               | BYK-MAX NU 4230 LDPE ●                                                               | BYK-MAX NU 4230 LDPE ●                                                               | BYK-MAX NU 4230 LDPE ●                                                               | BYK-MAX NU 4230 LDPE ●                                                               |
| Processing additives | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ●<br>BYK-MAX P 4102 ○ | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ●<br>BYK-MAX P 4102 ○ | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ●<br>BYK-MAX P 4102 ○ | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ●<br>BYK-MAX P 4102 ○ | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ●<br>BYK-MAX P 4102 ○ |
| Anti-static agent    |                                                                                      |                                                                                      |                                                                                      | BYK-MAX AS 4170 ●                                                                    | BYK-MAX AS 4170 ●                                                                    |
| Anti-fog agent       |                                                                                      |                                                                                      |                                                                                      | BYK-MAX AF 4160 ●                                                                    | BYK-MAX AF 4160 ●                                                                    |
| Slip agent           | BYK-MAX SA 4190 ●                                                                    | BYK-MAX SA 4190 ●                                                                    | BYK-MAX SA 4190 ●                                                                    | BYK-MAX SA 4190 ●                                                                    | BYK-MAX SA 4190 ●                                                                    |

● First recommendation    ○ Second recommendation



# Polypropylene

| Application                                              | Natural fiber reinforced                                                                                                                                                                           | Mineral-filled                                                                                                                                                                                                          | Glass fiber reinforced                                                                                                                                                                                   | Pigment-filled                                                                                                                                                                                                          | Non-reinforced                                                                                                                                                                                     |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Coupling</b>                                          | SCONA TPPP 8112 GA ●<br>SCONA TPPP 9212 GA ●<br>SCONA TSPP 8219 GA ●<br>SCONA TSPP 10213 GB ●<br>SCONA 20097 ○<br>SCONA 20098 ○<br>SCONA TSPP 22113 GA ○                                           | SCONA TPPP 2003 GB ●<br>SCONA TPPP 9112 GA ●<br>SCONA TSPP 8219 GA ○                                                                                                                                                    | SCONA TPPP 8112 GA ●<br>SCONA TPPP 9112 GA ●<br>SCONA TPPP 9212 GA ●<br>SCONA TSPP 8219 GA ●<br>SCONA 20097 ○<br>SCONA 20098 ○<br>SCONA TPPP 9012 GA ○<br>SCONA TSPP 10213 GB ○<br>SCONA TSPP 22113 GA ○ | SCONA TSPP 5013 GB ●<br>SCONA TSPPR 30113 GB ●<br>SCONA TSPPR 31113 GB ●                                                                                                                                                | SCONA TSPP 5013 GB ●<br>SCONA TSPPR 30113 GB ●<br>SCONA TSPPR 31113 GB ●                                                                                                                           |
| <b>Odor reduction</b>                                    | BYK-MAX OR 4207 ●<br>BYK-MAX OR 4206 ○                                                                                                                                                             | BYK-MAX OR 4207 ●<br>BYK-MAX OR 4206 ○                                                                                                                                                                                  | BYK-MAX OR 4207 ●<br>BYK-MAX OR 4206 ○                                                                                                                                                                   | BYK-MAX OR 4207 ●<br>BYK-MAX OR 4206 ○                                                                                                                                                                                  | BYK-MAX OR 4207 ●<br>BYK-MAX OR 4206 ○                                                                                                                                                             |
| <b>Scratch resistance</b>                                | BYK-MAX ASC 4181 ●                                                                                                                                                                                 | BYK-MAX ASC 4181 ●                                                                                                                                                                                                      | BYK-MAX ASC 4181 ●                                                                                                                                                                                       | BYK-MAX ASC 4181 ●                                                                                                                                                                                                      | BYK-MAX ASC 4181 ●                                                                                                                                                                                 |
| <b>Flame retardancy</b>                                  | BYK-MAX FR 4143 ●                                                                                                                                                                                  | BYK-MAX FR 4143 ●                                                                                                                                                                                                       | BYK-MAX FR 4143 ●                                                                                                                                                                                        | BYK-MAX FR 4143 ●                                                                                                                                                                                                       | BYK-MAX FR 4143 ●                                                                                                                                                                                  |
| <b>Light stabilization</b>                               | BYK-MAX LS 4125 ●<br>RECYCLOBYK 4372 ●                                                                                                                                                             | BYK-MAX LS 4125 ●<br>RECYCLOBYK 4372 ●                                                                                                                                                                                  | BYK-MAX LS 4125 ●<br>RECYCLOBYK 4372 ●                                                                                                                                                                   | BYK-MAX LS 4125 ●<br>RECYCLOBYK 4372 ●                                                                                                                                                                                  | BYK-MAX LS 4125 ●<br>RECYCLOBYK 4372 ●                                                                                                                                                             |
| <b>Heat stabilization</b>                                | BYK-MAX HS 4301 ●<br>BYK-MAX HS 4302 ○<br>BYK-MAX HS 4303 ○<br>BYK-MAX HS 4311 ○<br>RECYCLOBYK 4370 ○<br>RECYCLOBYK 4371 ○<br><br>Black-colored product:<br>BYK-MAX HS 4334 ●<br>BYK-MAX HS 4332 ○ | BYK-MAX HS 4311 ●<br>BYK-MAX HS 4301 ○<br>BYK-MAX HS 4302 ○<br>BYK-MAX HS 4303 ○<br>BYK-MAX HS 4311 ○<br>RECYCLOBYK 4370 ○<br>RECYCLOBYK 4371 ○<br><br>Black-colored product:<br>BYK-MAX HS 4332 ○<br>BYK-MAX HS 4334 ○ | BYK-MAX HS 4301 ●<br>BYK-MAX HS 4302 ○<br>BYK-MAX HS 4303 ○<br>BYK-MAX HS 4311 ○<br>RECYCLOBYK 4370 ○<br>RECYCLOBYK 4371 ○<br><br>Black-colored product:<br>BYK-MAX HS 4334 ●<br>BYK-MAX HS 4332 ○       | BYK-MAX HS 4301 ●<br>BYK-MAX HS 4311 ●<br>BYK-MAX HS 4302 ○<br>BYK-MAX HS 4303 ○<br>BYK-MAX HS 4311 ○<br>RECYCLOBYK 4370 ○<br>RECYCLOBYK 4371 ○<br><br>Black-colored product:<br>BYK-MAX HS 4334 ●<br>BYK-MAX HS 4332 ○ | BYK-MAX HS 4301 ●<br>BYK-MAX HS 4302 ○<br>BYK-MAX HS 4303 ○<br>BYK-MAX HS 4311 ○<br>RECYCLOBYK 4370 ○<br>RECYCLOBYK 4371 ○<br><br>Black-colored product:<br>BYK-MAX HS 4334 ●<br>BYK-MAX HS 4332 ○ |
| <b>Nucleation</b>                                        | BYK-MAX NU 4230 PP ●<br>BYK-MAX NU 4232 ●<br>BYK-MAX NU 4230 LDPE ○                                                                                                                                | BYK-MAX NU 4230 PP ●<br>BYK-MAX NU 4232 ●<br>BYK-MAX NU 4230 LDPE ○                                                                                                                                                     | BYK-MAX NU 4230 PP ●<br>BYK-MAX NU 4232 ●<br>BYK-MAX NU 4230 LDPE ○                                                                                                                                      | BYK-MAX NU 4230 PP ●<br>BYK-MAX NU 4232 ●<br>BYK-MAX NU 4230 LDPE ○                                                                                                                                                     | BYK-MAX NU 4230 PP ●<br>BYK-MAX NU 4232 ●<br>BYK-MAX NU 4230 LDPE ○                                                                                                                                |
| <b>Processing additives</b>                              | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ○                                                                                                                                   | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ○                                                                                                                                                        | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ○                                                                                                                                         | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ○                                                                                                                                                        | BYK-MAX P 4109 ●<br>BYK-MAX P 4110 ●<br>BYK-MAX STARTSTOP 4205 ○                                                                                                                                   |
| <b>Anti-static agent</b>                                 |                                                                                                                                                                                                    |                                                                                                                                                                                                                         |                                                                                                                                                                                                          | BYK-MAX AS 4171 ●                                                                                                                                                                                                       | BYK-MAX AS 4171 ●                                                                                                                                                                                  |
| <b>Slip agent</b>                                        | BYK-MAX SA 4191 ●                                                                                                                                                                                  | BYK-MAX SA 4191 ●                                                                                                                                                                                                       | BYK-MAX SA 4191 ●                                                                                                                                                                                        | BYK-MAX SA 4191 ●                                                                                                                                                                                                       | BYK-MAX SA 4191 ●                                                                                                                                                                                  |
| <b>Multifunctional (heat stabilization and coupling)</b> | BYK-MAX HS 4350 ●<br><br>Black-colored product:<br>BYK-MAX HS 4342 ●<br>BYK-MAX HS 4344 ●                                                                                                          |                                                                                                                                                                                                                         | BYK-MAX HS 4350 ●<br><br>Black-colored product:<br>BYK-MAX HS 4342 ●<br>BYK-MAX HS 4344 ●                                                                                                                |                                                                                                                                                                                                                         |                                                                                                                                                                                                    |



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