



## Metocene HM562S

### Metallocene PP Homopolymer

#### Product Description

Metocene HM562S is a metallocene-catalysed polymer with a very narrow Molecular Weight Distribution, suitable for extrusion application. It is formulated with an anti-gas fading stabilization package. It can be advantageously processed in different spinning technologies. Typical applications are spunbond nonwovens and continuous filaments such as partially-oriented yarns (POY). Metocene HM562S expands processing capabilities to achieve unmatched properties balances. It allows faster spinning and lower denier filaments. Additional advantages of Metocene HM562S are low volatiles and processing smokes.

#### Product Characteristics

|                                      |                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Status</b>                        | Commercial: Active                                                                                                      |
| <b>Test Method used</b>              | ISO                                                                                                                     |
| <b>Availability</b>                  | Europe, Africa-Middle East                                                                                              |
| <b>Processing Method</b>             | Continuous Filament/Spinning, Spun Bond                                                                                 |
| <b>Features</b>                      | Gas-fading Resistant, Homopolymer, Narrow Molecular Weight Distribution, High Purity                                    |
| <b>Typical Customer Applications</b> | Nonwoven Spunbond, Filament Yarn, Furniture & Buildings, Geotextile & Agriculture, Hygiene Nonwoven, Protective Clothes |

| Typical Properties                                  | Method        | Value Unit                |
|-----------------------------------------------------|---------------|---------------------------|
| <b>Physical</b>                                     |               |                           |
| Melt flow rate (MFR) (230°C/2.16kg)                 | ISO 1133      | 30 g/10 min               |
| Melt volume flow rate (230°C/2.16kg)                | ISO 1133      | 40 cm <sup>3</sup> /10min |
| <b>Mechanical</b>                                   |               |                           |
| Tensile Modulus (23 °C)                             | ISO 527-1, -2 | 1450 MPa                  |
| Tensile Stress at Yield (23 °C)                     | ISO 527-1, -2 | 31 MPa                    |
| Tensile Strain at Break (23 °C)                     | ISO 527-1, -2 | >50 %                     |
| Tensile Strain at Yield (23 °C)                     | ISO 527-1, -2 | 10 %                      |
| Flexural modulus (23 °C)                            | ISO 178       | 1400 MPa                  |
| <b>Impact</b>                                       |               |                           |
| Notched izod impact strength (23 °C)                | ISO 180       | 3 kJ/m <sup>2</sup>       |
| <b>Thermal</b>                                      |               |                           |
| Heat deflection temperature B (0.45 MPa) Unannealed | ISO 75B-1, -2 | 93 °C                     |
| Melting Temperature                                 | ISO 3146      | 145 °C                    |
| Vicat softening temperature A/50                    | ISO 306       | 136 °C                    |
| Vicat softening temperature B/50                    | ISO 306       | 82 °C                     |

#### Notes

Typical properties; not to be construed as specifications.

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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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