



Moplen EP548S

Polypropylene, Impact Copolymer

Product Description

Moplen EP548S is a nucleated heterophasic copolymer with antistatic agent used for injection moulding applications.

It exhibits an outstanding balance of mechanical properties combined with a medium high fluidity.

Moplen EP548S is extensively used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

Moplen EP548S is suitable for food contact.

Product Characteristics

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|--------------------------------------|---|
| Status | Commercial: Active |
| Test Method used | ISO |
| Availability | Europe, Africa-Middle East |
| Processing Methods | Injection Molding |
| Features | Antistatic, High Flow , Nucleated |
| Typical Customer Applications | Housewares, Opaque Containers, Sports, Leisure and Toys |

| Typical Properties | Method | Value | Unit |
|--|---------------|-------|------------------------|
| Physical | | | |
| Density | ISO 1183 | 0.9 | g/cm ³ |
| Melt flow rate (MFR) (230°C/2.16kg) | ISO 1133 | 44 | g/10 min |
| Melt volume flow rate (230°C/2.16kg) | ISO 1133 | 59 | cm ³ /10min |
| Mechanical | | | |
| Tensile Modulus | ISO 527-1, -2 | 1550 | MPa |
| Tensile Stress at Yield | ISO 527-1, -2 | 28 | MPa |
| Tensile Strain at Break | ISO 527-1, -2 | 30 | % |
| Tensile Strain at Yield | ISO 527-1, -2 | 5 | % |
| Impact | | | |
| Charpy unnotched impact strength | ISO 179 | | |
| (23 °C, Type 1, Edgewise) | | 110 | kJ/m ² |
| (0 °C, Type 1, Edgewise) | | 100 | kJ/m ² |
| (-20 °C, Type 1, Edgewise) | | 85 | kJ/m ² |
| Charpy notched impact strength | ISO 179 | | |
| (23 °C, Type 1, Edgewise, Notch A) | | 5.0 | kJ/m ² |
| (0 °C, Type 1, Edgewise, Notch A) | | 3.5 | kJ/m ² |
| (-20 °C, Type 1, Edgewise, Notch A) | | 3.0 | kJ/m ² |
| Ductile/Brittle transition temperature | ISO 6603-2 | -53 | °C |
| Hardness | | | |
| Ball indentation hardness (H 358/30) | ISO 2039-1 | 68 | MPa |
| Thermal | | | |
| Heat deflection temperature B (0.45 MPa) Unannealed | ISO 75B-1, -2 | 95 | °C |
| Vicat softening temperature A/50 | ISO 306 | 151 | °C |
| Vicat softening temperature B/50 | ISO 306 | 80 | °C |

Notes

Typical properties; not to be construed as specifications.