



Moplen HP548L

Polypropylene, Homopolymer

Product Description

Moplen HP548L is a homopolymer for extrusion and thermoforming applications with nucleation and antielectrostatic agent.

Moplen HP548L offers good stiffness and transparency. It exhibits an excellent processability and good wall thickness distribution of the thermoformed parts.

The main applications of Moplen HP548L are dairy packaging, yellow fat packaging, lids and trays. It is not intended for medical and pharmaceutical applications.

Product Characteristics

| | |
|--------------------------------------|-------------------------------|
| Status | Commercial: Active |
| Test Method used | ISO |
| Availability | Europe, Africa-Middle East |
| Processing Methods | Extrusion Thermoforming |
| Typical Customer Applications | Housewares, Opaque Containers |

| Typical Properties | Method | Value | Unit |
|---|---------------|-------|------------------------|
| Physical | | | |
| Density | ISO 1183 | 0.9 | g/cm ³ |
| Melt flow rate (MFR) (230°C/2.16Kg) | ISO 1133 | 5.5 | g/10 min |
| Melt volume flow rate (230°C/2.16Kg) | ISO 1133 | 7.4 | cm ³ /10min |
| Mechanical | | | |
| Tensile Modulus | ISO 527-1, -2 | 1600 | MPa |
| Tensile Stress at Yield | ISO 527-1, -2 | 36 | MPa |
| Tensile Strain at Break | ISO 527-1, -2 | >50 | % |
| Tensile Strain at Yield | ISO 527-1, -2 | 9 | % |
| Impact | | | |
| Charpy unnotched impact strength (23 °C, Type 1, Edgewise) | ISO 179 | 140 | kJ/m ² |
| Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A) | ISO 179 | 3.5 | kJ/m ² |
| Hardness | | | |
| Ball indentation hardness (H 358/30) | ISO 2039-1 | 78 | MPa |
| Thermal | | | |
| Heat deflection temperature B (0.45 MPa) Unannealed | ISO 75B-1, -2 | 90 | °C |
| Vicat softening temperature (A50 (50°C/h 10N)) | ISO 306 | 154 | °C |
| (B50 (50°C/h 50N)) | | 94 | °C |
| Optical | | | |
| Haze (1 mm) | ASTM D 1003 | 49 | % |
| Gloss (60°) | ASTM D 2457 | 107 | % |

Notes

Typical properties; not to be construed as specifications.