



Moplen HP456J

Polypropylene, Homopolymer

Product Description

Moplen HP456J is used in extrusion and thermoforming applications. It is formulated with a low water-carry-over additive package. Typical applications are monofilaments, ropes and tapes.

Product Characteristics

| | |
|--------------------------------------|--|
| Status | Commercial: Active |
| Test Method used | ISO |
| Availability | Europe, Africa-Middle East |
| Processing Method | Tapes & Raffia, Extrusion Thermoforming |
| Typical Customer Applications | Raffia/Tapes/Strapping, Artificial Grass, Geotextile & Agriculture |

| Typical Properties | Method | Value | Unit |
|---|---------------|-------|------------------------|
| Physical | | | |
| Melt flow rate (MFR) (230°C/2.16kg) | ISO 1133 | 3.4 | g/10 min |
| Melt volume flow rate (230°C/2.16 kg) | ISO 1133 | 4.6 | cm ³ /10min |
| Mechanical | | | |
| Tensile Modulus | ISO 527-1, -2 | 1500 | MPa |
| Tensile Stress at Yield | ISO 527-1, -2 | 34 | MPa |
| Tensile Strain at Break | ISO 527-1, -2 | >50 | % |
| Tensile Strain at Yield | ISO 527-1, -2 | 10 | % |
| Impact | | | |
| Charpy unnotched impact strength (23 °C, Type 1, Edgewise) | ISO 179 | 190 | kJ/m ² |
| Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A) | ISO 179 | 4.0 | kJ/m ² |
| Hardness | | | |
| Ball indentation hardness (H 358/30) | ISO 2039-1 | 74 | MPa |
| Thermal | | | |
| Heat deflection temperature B (0.45 MPa) Unannealed | ISO 75B-1, -2 | 97 | °C |
| Vicat softening temperature (A50 (50°C/h 10N)) | ISO 306 | 154 | °C |
| (B50 (50°C/h 50N)) | | 92 | °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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