

Phillips Sumika Marlex® CHN-200 Thermoplastic Polyolefin (discontinued **)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Thermoplastic Polyolefin, High Stiffness, Talc-Filled Applications: Automotive Interiors Conditioning after Molding: 48 hr at 23°C Nominal Shrinkage: 0.9-1.1% Drying conditions Temperature: 80-100°C Time: 2 hours minimum, 4 hours maximum Device: Desiccant Dryer Moisture content: 0.1 wt% max. Molding Temperatures Rear Temperature: 145-200°C Middle Temperature: 210-235°C Front and Nozzle Temps: 210-235°C Stock Temperature: 191-246°C Mold Temperature: 23-50°C Processing conditions Suggested shot size: 50-70% First stage injection pressure: Maximize Screw Speed: 30-60% Packing pressure: Minimize Back Pressure: 50-150 psi Other molding considerations: Melt temperature above 260°C may cause resin degradation and changes to resin properties. To improve dispersion of color concentrates use a screw with a mixing zone or mixing nozzle. Phillips Sumika Polypropylene Company has been shut down, as announced in 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Phillips-Sumika-Marlex-CHN-200-Thermoplastic-Polyolefin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	
Melt Flow	22 g/10 min @Temperature 230 °C	22 g/10 min @Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ISO 2039
Tensile Strength, Yield	25.0 MPa	3630 psi	50 mm/min; ISO 527
Flexural Modulus	2.55 GPa	370 ksi	2.0 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	ISO 180
	2.50 kJ/m ² @Temperature -40.0 °C	1.19 ft-lb/in ² @Temperature -40.0 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	123 °C	253 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75

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