

LyondellBasell Moplen HP550J Polypropylene Homopolymer

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

Material Notes:

Description: HP550J, a general purpose polypropylene homopolymer resin, is suitable for general extrusion and film fiber applications. HP550J resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for all food contact, including cooking applications. HP550J resin has a UL yellow card RTI of 105Â°C and a flame rating of UL94HB; these apply only to the natural color resin at a minimum thickness of 0.028 inches. All ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). Uses: Carpet backing, rope, twineInformation provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Moplen-HP550J-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/inÂ³	ASTM D792 & ISO 1183
Melt Flow	3.0 g/10 min	3.0 g/10 min	Condition L; ASTM D1238 & ISO 1133
	@Load 2.16 kg, Temperature 230 Â°C	@Load 4.76 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.0 MPa	4790 psi	ISO 527-1, -2
	35.2 MPa	5100 psi	ASTM D 638
Elongation at Yield	11 %	11 %	ASTM D 638
Flexural Modulus	1.40 GPa	203 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	Type 1, Notch A; ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	51.1 Â°C	124 Â°F	Unannealed; ISO 75A-1, -2
Vicat Softening Point	155 Â°C	311 Â°F	Method A; ISO 306
UL RTI, Electrical	221 Â°C	430 Â°F	0.028 in; UL 746
UL RTI, Mechanical with Impact	221 Â°C	430 Â°F	0.028 in; UL 746
UL RTI, Mechanical without Impact	221 Â°C	430 Â°F	0.028 in; UL 746
Flammability, UL94	HB	HB	0.0280 in, NC

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