

SABIC PP 513MN40 Polypropylene Impact Copolymer for Injection Molding

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

Product Description: PP 513MN40 is a controlled rheology PP grade of narrow molecular weight distribution. It contains an antistatic agent and is especially developed for producing injection molded articles. This grade has a good impact resistance (even at low temperature). **Typical Applications:** PP 513MN40 can be used for general purpose thin wall injection molding applications. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-513MN40-Polypropylene-Impact-Copolymer-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.012 - 0.025 cm/cm	0.012 - 0.025 in/in	
Melt Flow	70 g/10 min @Load 2.16 kg, Temperature 230 °C	70 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	94	94	ASTM D785
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Modulus, 1% Secant	1200 MPa	174000 psi	ASTM D790A
Izod Impact, Notched	0.350 J/cm @Temperature -20.0 °C	0.656 ft-lb/in @Temperature -4.00 °F	ASTM D256
	0.700 J/cm @Temperature 23.0 °C	1.31 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ASTM D648
Vicat Softening Point	150 °C	302 °F	ASTM D1525B

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 235 °C	428 - 455 °F	Barrel Temperature

Mold Temperature Processing Properties	15.0 - 40.0 °C Metric	59.0 - 104 °F English	Comments
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