

SABIC PP 57MNK10 Polypropylene Impact Copolymer for Injection Molding

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

Material Notes:

Product Description: PP 57MNK10 is a controlled rheology PP grade of medium molecular weight distribution specially developed for producing injection molded articles. This grade has an excellent impact resistance (even at low temperature) and good stiffness. Typical

Applications: PP 57MNK10 can be used for garden furniture, housewares, containers, toys, crates and boxes. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-57MNK10-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	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 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	25.0 MPa	3630 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus, 1% Secant	1300 MPa	189000 psi	ASTM D790A
Izod Impact, Notched	0.550 J/cm @Temperature -20.0 °C	1.03 ft-lb/in @Temperature -4.00 °F	ASTM D256
	1.20 J/cm @Temperature 23.0 °C	2.25 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ASTM D648
Vicat Softening Point	150 °C	302 °F	ASTM D1525B

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 240 °C	392 - 464 °F	Barrel Temperature

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