

SABIC PP 49MK40 Polypropylene Impact Copolymer for Injection Molding

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

Material Notes:

Product Description: PP 49MK40 is a high crystalline impact copolymer with high stiffness. This grade is especially developed for producing injection molded articles. The grade contains an antistatic & nucleating agent and has medium flow properties, medium impact resistance (even at low temperature) and high stiffness. **Typical Applications:** PP 49MK40 can be used for general purpose IM products that require high stiffness, such as housewares, garden furniture, appliances and rigid packaging. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-49MK40-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	18 g/10 min @Load 2.16 kg, Temperature 230 °C	18 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	88	88	ASTM D785
Tensile Strength, Yield	33.0 MPa	4790 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Modulus, 1% Secant	1750 MPa	254000 psi	ASTM D790A
Izod Impact, Notched	0.380 J/cm @Temperature -20.0 °C	0.712 ft-lb/in @Temperature -4.00 °F	ASTM D256
	0.600 J/cm @Temperature 23.0 °C	1.12 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648
Vicat Softening Point	155 °C	311 °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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