

SABIC PP 412MK49 Polypropylene Impact Copolymer for Injection Molding

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

Material Notes:

Product Description: PP 412MK49 is specially developed for producing injection molded articles. This grade contains an antistatic & nucleating agents. It has medium flow properties, good impact resistance (even at low temperature) and good stiffness. Typical

Applications: PP 412MK49 can be used for housewares, toys and thin wall containers (Food and non-food). Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-412MK49-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	45 g/10 min @Load 2.16 kg, Temperature 230 °C	45 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Modulus, 1% Secant	1500 MPa	218000 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
	0.650 J/cm @Temperature 23.0 °C	1.22 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	ASTM D648
Vicat Softening Point	150 °C	302 °F	ASTM D1525B

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 235 °C	392 - 455 °F	Barrel Temperature
Mold Temperature	15.0 - 40.0 °C	59.0 - 104 °F	

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