

SABIC PP681K Polypropylene Random Copolymer for Injection Molding

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Product Description: PP 681K is specially developed for producing injection molded articles with high clarity and also has better impact properties than homo PP counterparts. PP 681K has the following features: Consistent processability Good stiffness Excellent clarity Typical

Applications: PP 681K can be used for clear housewares items, lids, food containers, baby bottles (ISBM), caps and CD-boxes. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP681K-Polypropylene-Random-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	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 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	28.0 MPa	4060 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus, 1% Secant	1050 MPa	152000 psi	ASTM D790A
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525B

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 230 °C	392 - 446 °F	Barrel Temperature
Mold Temperature	15.0 - 40.0 °C	59.0 - 104 °F	

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