

SABIC PP 5707N Polypropylene Homopolymer STIFFPACT for Injection Molding

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

Material Notes:

Product Description: PP 5707N is a reactor PP homopolymer grade with antistatic and nucleated agents. It is suitable for producing injection molded applications and gives consistent processability, good flow properties for excellent part filling, high stiffness and good clarity in the products. This grade allows for short cycle times. **Typical Applications:** PP 5707N can be used for housewares thin wall packaging, caps & closures and garden furniture items with good dimensional stability. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-5707N-Polypropylene-Homopolymer-STIFFPACT-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	24 g/10 min @Load 2.16 kg, Temperature 230 °C	24 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	35.0 MPa	5080 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus, 1% Secant	1800 MPa	261000 psi	ASTM D790A
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °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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