

Borealis PS65C40 Polypropylene Compound, Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

PS65C40 is a 40% mineral filled polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process. Applications: PS65C40 has been developed especially for applications like: washing machine parts, and household applications. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-PS65C40-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	average process; in flow; 150x80x2mm
	0.010 cm/cm	0.010 in/in	average process; cross flow; 150x80x2mm
Melt Flow	16 g/10 min	16 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	50mm/min; ISO 527-2
Tensile Modulus	2.80 GPa	406 ksi	1mm/min; ISO 527-2
Flexural Modulus	2.60 GPa	377 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.210 J/cm ²	0.999 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ISO 75-2
Vicat Softening Point	105 °C	221 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	155 °C	311 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Velocity	100 - 200 mm/sec	3.94 - 7.87 in/sec	
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Screw Speed	low to medium	

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