

Borealis BC612WG Polypropylene Copolymer

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

Material Notes:

BC612WG is a polypropylene copolymer intended for injection molding. The product is available in natural but other colors can be provided on request. This material has excellent balanced mechanical properties and is easy to process. Applications: BC612WG has been developed especially for applications like: washing machine parts, dishwashers components, and household applications. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BC612WG-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	Borealis method, average process shrinkage
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	44.0 MPa	6380 psi	ISO 2039
Tensile Strength, Yield	24.0 MPa	3480 psi	50mm/min; ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.10 GPa	160 ksi	50% relative humidity; ISO 178
Charpy Impact Unnotched	8.70 J/cm ² @Temperature -20.0 °C	41.4 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	ISO 75-2

Thermal Properties	64.0 °C Metric	147 °F English	Comments
	@Load 5.10 kg	@Load 11.2 lb	
	154 °C	309 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Middle Barrel Temperature	220 - 260 °C	428 - 500 °F	mass temperature
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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