

Generic PP, Unspecified - Glass Bead

Polypropylene

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass beads		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.950 - 1.48	g/cm ³	ASTM D792
23°C	1.05 - 1.12	g/cm ³	ISO 1183
Molding Shrinkage - Flow (23°C)	0.50 - 1.8	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.019 - 0.031	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1100 - 5860	MPa	ASTM D638
23°C	1500 - 3250	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	19.3 - 100	MPa	ASTM D638
Fracture, 23°C	15.9 - 45.0	MPa	ASTM D638
Fracture, 23°C	15.0 - 25.5	MPa	ISO 527-2
23°C	24.9 - 33.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	9.8 - 10	%	ASTM D638
Fracture, 23°C	2.0 - 14	%	ASTM D638
Fracture, 23°C	3.6 - 200	%	ISO 527-2
Flexural Modulus			
23°C	1200 - 4200	MPa	ASTM D790
23°C	1880 - 2220	MPa	ISO 178
Flexural Strength			
23°C	27.6 - 71.0	MPa	ASTM D790
23°C	35.0 - 40.3	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	25 - 43	J/m	ASTM D256
23°C	2.1 - 4.2	kJ/m ²	ISO 180

Unnotched Izod Impact (23°C)	250 - 690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	111 - 150	°C	ASTM D648
1.8 MPa, not annealed	57.2 - 122	°C	ASTM D648
1.8 MPa, not annealed	56.0 - 103	°C	ISO 75-2/A
CLTE - Flow	3.8E-5 - 6.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+12 - 1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (23°C)	20	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 82.2	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	199 - 246	°C	
Middle Temperature	210 - 246	°C	
Front Temperature	210 - 246	°C	
Processing (Melt) Temp	211 - 240	°C	
Mold Temperature	40.2 - 50.7	°C	
Injection Pressure	85.9 - 86.4	MPa	
Back Pressure	0.258 - 0.517	MPa	
Screw Speed	45 - 70	rpm	
Injection instructions			

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