

Generic PP Homopolymer - Glass Fiber, Long

Polypropylene Homopolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Long glass fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.03 - 1.48	g/cm ³	ASTM D792
23°C	1.12 - 1.32	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.12 - 0.40	%	ASTM D955
23°C	0.17 - 0.33	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	6090 - 13100	MPa	ASTM D638
23°C	6240 - 13300	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	90.0 - 140	MPa	ASTM D638, ISO 527-2
Fracture, 23°C	105 - 131	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	1.5 - 2.6	%	ASTM D638, ISO 527-2
Flexural Modulus			
23°C	4340 - 11200	MPa	ASTM D790
23°C	6250 - 13000	MPa	ISO 178
Flexural Strength (23°C)	155 - 230	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17 - 30	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	54 - 76	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	100 - 350	J/m	ASTM D256
23°C	18 - 25	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	149 - 165	°C	ASTM D648
1.8 MPa, not annealed	149 - 159	°C	ISO 75-2/A
Melting Temperature	167 - 168	°C	ISO 11357-3, ASTM D3418
Injection	Nominal Value	Unit	

Drying Temperature	80.0 - 93.3	°C
Processing (Melt) Temp	216 - 225	°C
Mold Temperature	54.7 - 65.8	°C
Back Pressure	0.259 - 1.00	MPa

Injection instructions

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