

Generic PP Copolymer - Glass Fiber

Polypropylene Copolymer

Generic

Message:

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General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.945 - 1.25	g/cm ³	ASTM D792
23°C	0.953 - 1.21	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	0.40 - 12	g/10 min	ASTM D1238
230°C/2.16 kg	0.80 - 21	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	1.00 - 7.05	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.10 - 0.62	%	ASTM D955
Transverse flow: 23°C	0.25 - 1.0	%	ASTM D955
23°C	0.24 - 1.2	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.010 - 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	53 - 110		ASTM D785
Durometer Hardness			
23°C	74 - 75		ASTM D2240
23°C	65 - 77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1650 - 6260	MPa	ASTM D638
23°C	2130 - 11000	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	23.6 - 80.3	MPa	ASTM D638
Yield, 23°C	35.3 - 91.8	MPa	ISO 527-2
Fracture, 23°C	20.0 - 75.7	MPa	ASTM D638
Fracture, 23°C	44.6 - 90.0	MPa	ISO 527-2
23°C	29.9 - 89.6	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	3.0 - 5.1	%	ASTM D638
Yield, 23°C	2.4 - 6.0	%	ISO 527-2

Fracture, 23°C	2.9 - 9.3	%	ASTM D638
Fracture, 23°C	2.8 - 6.1	%	ISO 527-2
Flexural Modulus			
23°C	1450 - 5900	MPa	ASTM D790
23°C	1810 - 5700	MPa	ISO 178
Flexural Strength			
23°C	30.3 - 114	MPa	ASTM D790
23°C	48.4 - 125	MPa	ISO 178
Yield, 23°C	40.0 - 115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.7 - 20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	28 - 60	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	59 - 220	J/m	ASTM D256
23°C	4.0 - 25	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	210 - 810	J/m	ASTM D256
Dart Drop Impact (23°C)	0.339 - 2.98	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	140 - 160	°C	ASTM D648
0.45 MPa, not annealed	110 - 160	°C	ISO 75-2/B
1.8 MPa, not annealed	87.7 - 150	°C	ASTM D648
1.8 MPa, not annealed	89.3 - 150	°C	ISO 75-2/A
Vicat Softening Temperature			
--	90.0 - 160	°C	ASTM D1525
--	79.7 - 167	°C	ISO 306
Melting Temperature	160	°C	
CLTE - Flow	3.0E-5 - 3.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 - 1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	9.5E+15 - 1.0E+16	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	550 - 755	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	73.8 - 82.9	°C	
Drying Time	1.5 - 3.0	hr	
Suggested Max Moisture	0.050 - 0.20	%	
Suggested Max Regrind	21	%	
Rear Temperature	201 - 253	°C	
Middle Temperature	204 - 246	°C	
Front Temperature	191 - 247	°C	
Nozzle Temperature	188 - 247	°C	

Processing (Melt) Temp	209 - 245	°C
Mold Temperature	32.0 - 60.0	°C
Injection Pressure	5.52 - 90.3	MPa
Holding Pressure	4.48 - 60.0	MPa
Back Pressure	0.237 - 0.689	MPa
Cushion	8.89 - 8.91	mm

Injection instructions

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