

Generic PP Homopolymer - Calcium Carbonate

Polypropylene Homopolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement		Calcium carbonate filler	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.948 - 1.26	g/cm ³	ASTM D792
23°C	1.04 - 1.68	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	4.7 - 21	g/10 min	ASTM D1238
230°C/2.16 kg	9.6 - 20	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.99 - 1.6	%	ASTM D955
Transverse flow: 23°C	1.5 - 2.0	%	ASTM D955
23°C	0.70 - 1.1	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.010 - 0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	85 - 101		ASTM D785
Durometer Hardness			
23°C	73 - 75		ASTM D2240
23°C	67 - 75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1390 - 3100	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	17.0 - 33.4	MPa	ASTM D638
Yield, 23°C	13.4 - 35.1	MPa	ISO 527-2
Fracture, 23°C	14.9 - 17.3	MPa	ASTM D638
23°C	22.9 - 32.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	4.0 - 7.8	%	ASTM D638
Yield, 23°C	1.7 - 9.1	%	ISO 527-2
Fracture, 23°C	5.0 - 53	%	ASTM D638
Fracture, 23°C	2.0 - 59	%	ISO 527-2
Flexural Modulus			
23°C	1370 - 3090	MPa	ASTM D790

23°C	1570 - 4510	MPa	ISO 178
Flexural Strength			ASTM D790
23°C	34.6 - 49.2	MPa	ASTM D790
Yield, 23°C	42.2 - 45.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	25 - 58	J/m	ASTM D256
23°C	1.9 - 4.2	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	320 - 1300	J/m	ASTM D256
23°C	4.9 - 12	kJ/m ²	ISO 180
Dart Drop Impact (23°C)	0.339 - 18.8	J	ASTM D3029
Dart Drop Impact (23°C)	0.565 - 6.80	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	95.4 - 121	°C	ASTM D648
0.45 MPa, not annealed	125	°C	ISO 75-2/B
1.8 MPa, not annealed	53.8 - 74.6	°C	ASTM D648
1.8 MPa, not annealed	48.0 - 70.5	°C	ISO 75-2/A
Vicat Softening Temperature			
--	89.3 - 170	°C	ASTM D1525
--	85.0 - 156	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	9.8E+15 - 1.0E+16	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	76.0 - 100	°C	
Drying Time	1.0 - 4.0	hr	
Rear Temperature	199 - 246	°C	
Middle Temperature	195 - 247	°C	
Front Temperature	191 - 247	°C	
Nozzle Temperature	188 - 238	°C	
Processing (Melt) Temp	205 - 233	°C	
Mold Temperature	18.3 - 70.0	°C	
Injection Pressure	5.86 - 103	MPa	
Back Pressure	0.241 - 0.776	MPa	
Screw Speed	75 - 125	rpm	
Injection instructions			

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