

Generic PP Copolymer - Calcium Carbonate

Polypropylene Copolymer

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			
--	0.941 - 1.26	g/cm ³	ASTM D792
23°C	0.968 - 1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	9.4 - 20	g/10 min	ASTM D1238
230°C/2.16 kg	5.9 - 14	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.87 - 1.8	%	ASTM D955
Transverse flow: 23°C	1.4 - 1.7	%	ASTM D955
23°C	1.0 - 1.3	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.020 - 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	44 - 88		ASTM D785
Durometer Hardness			
23°C	66 - 71		ASTM D2240
23°C	65 - 70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	239 - 2410	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	13.0 - 27.8	MPa	ASTM D638
Yield, 23°C	14.8 - 30.1	MPa	ISO 527-2
Fracture, 23°C	11.0 - 18.3	MPa	ASTM D638
23°C	16.3 - 23.5	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	2.0 - 12	%	ASTM D638
Yield, 23°C	2.8 - 9.7	%	ISO 527-2
Fracture, 23°C	5.0 - 210	%	ASTM D638
Fracture, 23°C	2.7 - 72	%	ISO 527-2
Flexural Modulus			
23°C	890 - 1940	MPa	ASTM D790

23°C	1170 - 2340	MPa	ISO 178
Flexural Strength (23°C)	15.5 - 41.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37 - 160	J/m	ASTM D256
23°C	3.4 - 8.2	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	1200 - 1300	J/m	ASTM D256
23°C	9.0 - 29	kJ/m ²	ISO 180
Dart Drop Impact (23°C)	0.565 - 18.2	J	ASTM D3029
Dart Drop Impact (23°C)	13.4 - 33.9	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	50.0 - 112	°C	ASTM D648
0.45 MPa, not annealed	75.0 - 131	°C	ISO 75-2/B
1.8 MPa, not annealed	43.6 - 61.1	°C	ASTM D648
1.8 MPa, not annealed	48.0 - 65.1	°C	ISO 75-2/A
Vicat Softening Temperature	65.0 - 154	°C	ISO 306
Injection	Nominal Value	Unit	
Drying Temperature	73.9 - 93.3	°C	
Drying Time	1.0 - 3.0	hr	
Rear Temperature	200 - 246	°C	
Middle Temperature	200 - 246	°C	
Front Temperature	199 - 246	°C	
Nozzle Temperature	188 - 238	°C	
Processing (Melt) Temp	180 - 216	°C	
Mold Temperature	32.2 - 49.4	°C	
Injection Pressure	5.86 - 88.2	MPa	
Back Pressure	0.328 - 1.10	MPa	
Injection instructions			

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