Generic PP, Unspecified - Talc

Polypropylene

Generic

Message:

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General Information			
Filler / Reinforcement	Talc filler		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.04 - 1.27	g/cm³	ASTM D792
23°C	1.02 - 1.26	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	0.50 - 20	g/10 min	ASTM D1238
230°C/2.16 kg	3.0 - 25	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	2.00 - 8.25	cm³/10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.78 - 1.6	%	ASTM D955
Transverse flow: 23°C	1.3 - 1.8	%	ASTM D955
23°C	8.0E-3 - 2.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.018 - 0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
23°C	60 - 105		ASTM D785
23°C	60 - 88		ISO 2039-2
Durometer Hardness			
23°C	70 - 78		ASTM D2240
23°C	62 - 68		ISO 868
Ball Indentation Hardness	40.0 - 85.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	2070 - 5170	MPa	ASTM D638
23°C	1420 - 4010	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	19.9 - 34.6	MPa	ASTM D638
Yield, 23°C	16.9 - 36.4	MPa	ISO 527-2
Fracture, 23°C	16.0 - 32.2	MPa	ASTM D638
Fracture, 23°C	1.95 - 32.6	MPa	ISO 527-2
23°C	25.3 - 33.9	MPa	ASTM D638

Tensile Elongation			
Yield, 23°C	4.9 - 10	%	ASTM D638
Yield, 23°C	2.0 - 10	%	ISO 527-2
Fracture, 23°C	3.0 - 38	%	ASTM D638
Fracture, 23°C	2.2 - 100	%	ISO 527-2
Flexural Modulus			
23°C	1330 - 3680	MPa	ASTM D790
23°C	2.02 - 3260	MPa	ISO 178
Flexural Strength			
23°C	32.5 - 55.0	MPa	ASTM D790
23°C	23.6 - 72.0	MPa	ISO 178
Yield, 23°C	44.6 - 64.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	1.2 - 6.7	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength (23°C)	19 - 65	kJ/m^2	ISO 179
Notched Izod Impact			
23°C	20 - 67	J/m	ASTM D256
23°C	1.0 - 40	kJ/m^2	ISO 180
Unnotched Izod Impact (23°C)	25 - 1400	J/m	ASTM D256
Dart Drop Impact (23°C)	0.565 - 9.04	J	ASTM D3029
Dart Drop Impact (23°C)	0.452 - 1.98	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, not annealed	105 - 136	°C	ASTM D648
0.45 MPa, not annealed	107 - 135	°C	ISO 75-2/B
1.8 MPa, not annealed	58.5 - 82.5	°C	ASTM D648
1.8 MPa, not annealed	53.0 - 111	°C	ISO 75-2/A
Vicat Softening Temperature			
--	95.5 - 155	°C	ASTM D1525
--	84.0 - 162	°C	ISO 306
Melting Temperature (DSC)	149 - 160	°C	ISO 3146
CLTE - Flow	5.9E-5 - 1.0E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			
--	1.0E+5 - 1.0E+15	ohms	ASTM D257
--	1.0E+13 - 1.5E+15	ohms	IEC 60093
Volume Resistivity			
23°C	1.0E+2 - 1.0E+16	ohms·cm	ASTM D257
23°C	8.4E+15 - 1.1E+16	ohms·cm	IEC 60093
Dielectric Strength (23°C)	24 - 120	kV/mm	IEC 60243-1
Dielectric Constant (23°C)	2.30 - 2.50		ASTM D150
Comparative Tracking Index	595 - 600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	642 - 960	°C	IEC 60695-2-13

Injection	Nominal Value	Unit
Drying Temperature	73.0 - 94.0	°C
Drying Time	1.0 - 4.0	hr
Suggested Max Moisture	0.049 - 0.051	%
Rear Temperature	163 - 225	°C
Middle Temperature	184 - 230	°C
Front Temperature	205 - 240	°C
Nozzle Temperature	205 - 240	°C
Processing (Melt) Temp	210 - 240	°C
Mold Temperature	37.7 - 55.8	°C
Injection Pressure	6.55 - 96.2	MPa
Holding Pressure	5.17 - 7.20	MPa
Back Pressure	0.150 - 12.5	MPa
Screw Speed	79 - 125	rpm

Injection instructions

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