

Generic PP, Unspecified - Mineral

Polypropylene

Generic

Message:

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General Information			
Filler / Reinforcement	Mineral filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.996 - 1.25	g/cm ³	ASTM D792
23°C	0.955 - 1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	3.5 - 21	g/10 min	ASTM D1238
230°C/2.16 kg	1.0 - 31	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	7.85 - 18.1	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.60 - 1.5	%	ASTM D955
Transverse flow: 23°C	1.3	%	ASTM D955
23°C	0.46 - 1.4	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.020 - 0.031	%	ASTM D570
23°C, 24 hr	0.030 - 0.10	%	ISO 62
Equilibrium, 23°C	0.020 - 0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
23°C	52 - 108		ASTM D785
23°C	90 - 98		ISO 2039-2
Durometer Hardness			
23°C	54 - 74		ASTM D2240
23°C	60 - 71		ISO 868
Ball Indentation Hardness	25.6 - 81.1	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1830 - 5170	MPa	ASTM D638
23°C	1140 - 3140	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	16.9 - 35.1	MPa	ASTM D638
Yield, 23°C	13.4 - 33.5	MPa	ISO 527-2

Fracture, 23°C	12.0 - 48.3	MPa	ASTM D638
Fracture, 23°C	10.4 - 32.4	MPa	ISO 527-2
23°C	16.5 - 31.1	MPa	ASTM D638
23°C	19.0 - 30.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	4.0 - 10	%	ASTM D638
Yield, 23°C	2.8 - 8.2	%	ISO 527-2
Fracture, 23°C	1.0 - 61	%	ASTM D638
Fracture, 23°C	2.0 - 110	%	ISO 527-2
Flexural Modulus			
23°C	1120 - 2860	MPa	ASTM D790
23°C	1020 - 3030	MPa	ISO 178
Flexural Strength			
23°C	24.1 - 81.0	MPa	ASTM D790
23°C	19.8 - 57.8	MPa	ISO 178
Yield, 23°C	33.2 - 47.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.5 - 37	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	18 - 110	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	21 - 66	J/m	ASTM D256
23°C	2.0 - 51	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	37 - 530	J/m	ASTM D256
23°C	14 - 72	kJ/m ²	ISO 180
Instrumented Dart Impact (23°C)	14.9 - 31.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	92.5 - 156	°C	ASTM D648
0.45 MPa, not annealed	89.3 - 132	°C	ISO 75-2/B
1.8 MPa, not annealed	51.5 - 141	°C	ASTM D648
1.8 MPa, not annealed	46.8 - 77.3	°C	ISO 75-2/A
Vicat Softening Temperature			
--	97.5 - 155	°C	ASTM D1525
--	36.0 - 156	°C	ISO 306
Melting Temperature			
--	160 - 182	°C	
--	165 - 166	°C	ISO 3146
CLTE - Flow			
--	4.4E-5 - 1.0E-4	cm/cm/°C	ASTM D696
--	6.0E-6 - 9.2E-5	cm/cm/°C	ISO 11359-2
RTI Elec	65.0 - 112	°C	UL 746

RTI Imp	65.0 - 120	°C	UL 746
RTI	65.0 - 120	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+14 - 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength			
23°C	19 - 40	kV/mm	ASTM D149
23°C	19 - 43	kV/mm	IEC 60243-1
Dissipation Factor (23°C)	2.0E-3 - 2.1E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	650 - 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	743 - 960	°C	IEC 60695-2-13
Oxygen Index	23 - 28	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	74.0 - 80.0	°C	
Drying Time	2.0 - 3.5	hr	
Suggested Max Moisture	0.010 - 0.015	%	
Suggested Max Regrind	15	%	
Hopper Temperature	59.8 - 60.0	°C	
Rear Temperature	199 - 200	°C	
Middle Temperature	215 - 216	°C	
Front Temperature	215 - 216	°C	
Nozzle Temperature	220 - 221	°C	
Processing (Melt) Temp	209 - 241	°C	
Mold Temperature	39.4 - 50.8	°C	
Injection Pressure	74.2 - 87.6	MPa	
Holding Pressure	44.7 - 46.1	MPa	
Back Pressure	0.345 - 44.1	MPa	
Screw Speed	45	rpm	
Injection instructions			

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