

Generic PP Homopolymer - Mineral

Polypropylene Homopolymer

Generic

Message:

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General Information			
Filler / Reinforcement	Mineral filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04 - 1.26	g/cm ³	ASTM D792
23°C	1.04 - 1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	1.0 - 13	g/10 min	ASTM D1238
230°C/2.16 kg	1.7 - 21	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10.4 - 18.1	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.20 - 1.3	%	ASTM D955
23°C	0.88 - 1.3	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	74 - 98		ASTM D785
Durometer Hardness (23°C)	72 - 79		ISO 868
Ball Indentation Hardness	77.5 - 100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2150 - 4100	MPa	ASTM D638
23°C	2140 - 4330	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	24.0 - 30.0	MPa	ASTM D638
Yield, 23°C	24.4 - 34.4	MPa	ISO 527-2
Fracture, 23°C	21.0 - 60.9	MPa	ASTM D638
Fracture, 23°C	14.5 - 37.8	MPa	ISO 527-2
23°C	27.8 - 34.2	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	3.7 - 4.4	%	ASTM D638
Yield, 23°C	2.9 - 8.4	%	ISO 527-2
Fracture, 23°C	3.0 - 51	%	ASTM D638
Fracture, 23°C	1.1 - 100	%	ISO 527-2
Flexural Modulus			

23°C	1600 - 5800	MPa	ASTM D790
23°C	1740 - 4020	MPa	ISO 178
Flexural Strength			
23°C	45.0 - 90.5	MPa	ASTM D790
23°C	41.3 - 59.1	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.3 - 4.2	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	20 - 51	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	24 - 51	J/m	ASTM D256
23°C	2.0 - 5.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	30 - 40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	118 - 156	°C	ASTM D648
0.45 MPa, not annealed	110 - 126	°C	ISO 75-2/B
1.8 MPa, not annealed	56.4 - 139	°C	ASTM D648
1.8 MPa, not annealed	58.4 - 86.2	°C	ISO 75-2/A
Vicat Softening Temperature			
--	94.6 - 101	°C	ASTM D1525
--	81.3 - 158	°C	ISO 306
Melting Temperature (DSC)	165	°C	ISO 3146
RTI Elec	65.0 - 66.1	°C	UL 746
RTI Imp	65.0 - 66.1	°C	UL 746
RTI	65.0 - 66.1	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.5E+13 - 1.0E+14	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+13 - 1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	955 - 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	744 - 750	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 85.0	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	205 - 211	°C	
Middle Temperature	200 - 213	°C	
Front Temperature	209 - 218	°C	
Processing (Melt) Temp	199 - 231	°C	
Mold Temperature	47.0 - 70.0	°C	
Injection Pressure	87.5 - 102	MPa	
Back Pressure	0.480 - 7.50	MPa	
Injection instructions			

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