Generic PBT+ASA - Glass Fiber

Polybutylene Terephthalate + ASA

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.30 - 1.51	g/cm³	ISO 1183
Apparent Density	0.70 - 0.85	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	19.7 - 35.1	cm³/10min	ISO 1133
Molding Shrinkage (23°C)	0.18 - 1.1	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10 - 0.20	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	4910 - 10200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	98.3 - 126	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0 - 3.0	%	ISO 527-2
Flexural Modulus (23°C)	4010 - 9800	MPa	ISO 178
Flexural Stress (23°C)	139 - 200	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0 - 10	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	39 - 55	kJ/m²	ISO 179
Notched Izod Impact (23°C)	9.9 - 11	kJ/m²	ISO 180
Unnotched Izod Impact Strength (23°C)	40 - 50	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	204 - 220	°C	ISO 75-2/B
1.8 MPa, not annealed	148 - 200	°C	ISO 75-2/A
Vicat Softening Temperature	143 - 215	°C	ISO 306
Melting Temperature	220 - 243	°C	ISO 11357-3
CLTE - Flow	2.0E-5 - 4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14 - 1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+13 - 2.0E+15	ohms·cm	IEC 60093
Relative Permittivity (23°C)	3.65		IEC 60250
Dissipation Factor (23°C)	3.0E-3 - 0.021		IEC 60250

Comparative Tracking Index	191 - 500	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Flammability Index	650 - 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	675 - 775	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	95.0 - 121	°C	
Drying Time	2.0 - 6.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	250 - 260	°C	
Middle Temperature	250 - 265	°C	
Front Temperature	250 - 270	°C	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	80.0 - 95.0	°C	

Injection instructions

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Recommended distributors for this material

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