

Generic PARA - Glass Fiber

Polyarylamide

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
Specific Gravity			
--	1.36 - 1.82	g/cm ³	ASTM D792
23°C	1.43 - 1.77	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	3.6 - 20	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	1.85 - 11.6	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.15 - 0.31	%	ASTM D955
23°C	0.19 - 0.40	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	0.16 - 0.30	%	ISO 62
Saturated, 23°C	0.060 - 0.15	%	ISO 62
Equilibrium, 23°C, 50% RH	0.70 - 1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	7580 - 23400	MPa	ASTM D638
23°C	11900 - 24900	MPa	ISO 527-2
Tensile Stress			
Fracture, 23°C	152 - 281	MPa	ISO 527-2
23°C	141 - 269	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	2.0 - 3.0	%	ASTM D638
Fracture, 23°C	1.6 - 2.1	%	ISO 527-2
Flexural Modulus			
23°C	8500 - 21400	MPa	ASTM D790
23°C	11500 - 23500	MPa	ISO 178
Flexural Strength			
23°C	203 - 390	MPa	ASTM D790
23°C	280 - 402	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	4.4 - 20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	12 - 94	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	73 - 130	J/m	ASTM D256
Unnotched Izod Impact (23°C)	640 - 970	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	235 - 255	°C	ISO 75-2/B
1.8 MPa, not annealed	224 - 230	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	9.8E-6 - 2.0E-5	cm/cm/°C	ISO 11359-2
Lateral	4.0E-5 - 5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+3 - 6.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	3.0E+2 - 2.1E+16	ohms·cm	IEC 60093
Dielectric Strength (23°C)	20 - 33	kV/mm	IEC 60243-1
Comparative Tracking Index	320 - 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	798 - 903	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 121	°C	
Drying Time	1.0 - 12	hr	
Rear Temperature	255 - 280	°C	
Middle Temperature	265 - 280	°C	
Front Temperature	270 - 281	°C	
Nozzle Temperature	270 - 281	°C	
Processing (Melt) Temp	265 - 280	°C	
Mold Temperature	129 - 133	°C	
Injection Pressure	84.4 - 103	MPa	
Injection instructions			

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