

Generic PPA

Polyphthalamide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.10 - 1.39	g/cm ³	ASTM D792
23°C	1.10 - 1.26	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.063 - 2.0	%	ASTM D955
Transverse flow: 23°C	0.10 - 2.1	%	ASTM D955
23°C	0.97 - 1.7	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.20 - 0.31	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2370 - 20900	MPa	ASTM D638
23°C	2100 - 15600	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C	61.7 - 79.4	MPa	ISO 527-2
Fracture, 23°C	57.0 - 300	MPa	ISO 527-2
23°C	68.1 - 176	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	1.0 - 10	%	ASTM D638
Yield, 23°C	2.0 - 6.5	%	ISO 527-2
Fracture, 23°C	1.2 - 3.7	%	ASTM D638
Fracture, 23°C	1.5 - 5.2	%	ISO 527-2
Flexural Modulus			
23°C	2070 - 14200	MPa	ASTM D790
23°C	1790 - 10200	MPa	ISO 178
Flexural Strength			
23°C	101 - 295	MPa	ASTM D790
23°C	70.3 - 285	MPa	ISO 178
Shear Strength (23°C)	61.6 - 92.6	MPa	ASTM D732
Coefficient of Friction	0.20 - 0.23		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 - 12	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength (23°C)	29 - 85	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	15 - 94	J/m	ASTM D256
23°C	2.7 - 75	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	80 - 1400	J/m	ASTM D256
Instrumented Dart Impact (23°C)	1.36 - 54.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	130 - 301	°C	ISO 75-2/B
1.8 MPa, not annealed	101 - 146	°C	ASTM D648
1.8 MPa, not annealed	100 - 132	°C	ISO 75-2/A
Melting Temperature	299 - 315	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12 - 1.0E+15	ohms	IEC 60093
Volume Resistivity			
23°C	1.0E+2 - 5.1E+15	ohms·cm	ASTM D257
23°C	7.5E+14 - 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C)	17 - 25	kV/mm	ASTM D149
Dielectric Constant (23°C)	3.30 - 4.90		ASTM D150
Dissipation Factor (23°C)	9.0E-3 - 0.022		ASTM D150
Comparative Tracking Index	570 - 600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 121	°C	
Drying Time	3.8 - 5.3	hr	
Dew Point	-31.9 - -31.7	°C	
Suggested Max Moisture	0.045 - 0.15	%	
Rear Temperature	309 - 330	°C	
Middle Temperature	309 - 333	°C	
Front Temperature	309 - 338	°C	
Processing (Melt) Temp	315 - 331	°C	
Mold Temperature	78.0 - 160	°C	
Injection Pressure	96.3 - 98.7	MPa	
Injection instructions			

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