

Generic PPA - Aramid Fiber

Polyphthalamide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Aramid fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25 - 1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.067 - 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20 - 0.42	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3450 - 6030	MPa	ASTM D638
Tensile Strength (23°C)	65.9 - 147	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.0 - 3.3	%	ASTM D638
Flexural Modulus (23°C)	3450 - 6550	MPa	ASTM D790
Flexural Strength (23°C)	123 - 244	MPa	ASTM D790
Coefficient of Friction	0.13 - 0.25		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21 - 66	J/m	ASTM D256
Unnotched Izod Impact (23°C)	260 - 270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	118 - 282	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	10 - 1.0E+15	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 135	°C	
Drying Time	4.0 - 16	hr	
Rear Temperature	324 - 330	°C	
Middle Temperature	324 - 333	°C	
Front Temperature	324 - 338	°C	
Processing (Melt) Temp	313 - 330	°C	
Mold Temperature	135 - 149	°C	
Injection Pressure	86.2 - 103	MPa	
Injection instructions			

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