

Generic PPS - Aramid Fiber

Polyphenylene Sulfide

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PPS - Aramid Fiber
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Aramid fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35 - 1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.050 - 0.77	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4830 - 15000	MPa	ASTM D638
Tensile Strength (23°C)	57.1 - 119	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	1.5 - 1.6	%	ASTM D638
Flexural Modulus (23°C)	4550 - 14100	MPa	ASTM D790
Flexural Strength (23°C)	89.6 - 183	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21 - 43	J/m	ASTM D256
Unnotched Izod Impact (23°C)	110 - 320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	174 - 260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+3 - 1.0E+16	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	148 - 149	°C	
Drying Time	5.9 - 6.0	hr	
Processing (Melt) Temp	318 - 323	°C	
Mold Temperature	121 - 156	°C	
Injection Pressure	86.2 - 87.0	MPa	
Injection instructions			

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