

Generic PPE+PS - Carbon Fiber

Polyphenylene Ether + PS

Generic

Message:

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

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918 - 1.28	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.10 - 0.20	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	45.5 - 167	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.0 - 4.2	%	ASTM D638
Flexural Modulus (23°C)	6000 - 15900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43 - 70	J/m	ASTM D256
Unnotched Izod Impact (23°C)	100 - 240	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	98.9 - 178	°C	ASTM D648
1.8 MPa, not annealed	93.3 - 172	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 2.5E+5	ohms	ASTM D257
Volume Resistivity (23°C)	0.30 - 5.1E+4	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	90.6 - 121	°C	
Drying Time	3.0 - 4.5	hr	
Rear Temperature	232 - 307	°C	
Middle Temperature	232 - 313	°C	
Front Temperature	232 - 317	°C	
Processing (Melt) Temp	268 - 320	°C	
Mold Temperature	65.6 - 113	°C	
Injection instructions			

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