

Generic ABS+PC - Carbon Fiber, Nickel-Coated

Polycarbonate + ABS

Generic

Message:

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

General Information			
Filler / Reinforcement	Nickel plated carbon fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20 - 1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.10 - 0.25	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5800 - 14600	MPa	ASTM D638
Tensile Strength (Break, 23°C)	67.6 - 99.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.50 - 1.5	%	ASTM D638
Flexural Modulus (23°C)	5200 - 13800	MPa	ASTM D790
Flexural Strength (23°C)	95.0 - 193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	52 - 66	J/m	ASTM D256
Unnotched Izod Impact (23°C)	180 - 320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	99.0 - 121	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	0.20 - 1.0E+5	ohms	ASTM D257
Volume Resistivity (23°C)	0.030 - 25	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	87.1 - 98.9	°C	
Drying Time	3.5 - 4.5	hr	
Suggested Max Moisture	0.020 - 0.040	%	
Suggested Max Regrind	18	%	
Rear Temperature	259 - 268	°C	
Middle Temperature	260 - 268	°C	
Front Temperature	260 - 268	°C	
Nozzle Temperature	263 - 268	°C	
Processing (Melt) Temp	259 - 268	°C	
Mold Temperature	45.0 - 86.1	°C	
Back Pressure	0.345 - 2.03	MPa	
Injection instructions			

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