

# Generic Nylon 612 - Carbon Fiber

Polyamide 612

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Nylon 612 - 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	1.09 - 1.55	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (23°C)	0.10 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 - 0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6550 - 27600	MPa	ASTM D638
Tensile Strength (23°C)	123 - 207	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	2.0 - 2.5	%	ASTM D638
Fracture, 23°C	1.0 - 2.3	%	ASTM D638
Flexural Modulus (23°C)	5510 - 22400	MPa	ASTM D790
Flexural Strength (23°C)	188 - 334	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43 - 120	J/m	ASTM D256
Unnotched Izod Impact (23°C)	300 - 960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210 - 221	°C	ASTM D648
1.8 MPa, not annealed	197 - 219	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0 - 2.5E+4	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	Test Method
Drying Temperature	79.2 - 79.5	°C	
Drying Time	3.9 - 4.1	hr	
Rear Temperature	259 - 268	°C	
Middle Temperature	265 - 269	°C	
Front Temperature	265 - 277	°C	
Processing (Melt) Temp	267 - 274	°C	
Mold Temperature	76.5 - 79.7	°C	
Injection Pressure	95.7 - 103	MPa	
Injection instructions			

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### Recommended distributors for this material

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