

Generic Nylon 46 - Glass Fiber

Polyamide 46

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Nylon 46 - Glass Fiber
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.17 - 1.68	g/cm ³	ASTM D792
23°C	1.29 - 1.77	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.50 - 0.60	%	ASTM D955
23°C	0.27 - 1.3	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.90 - 2.6	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2 - 3.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7990 - 16100	MPa	ISO 527-2
Tensile Strength			
Fracture, 23°C	48.3 - 231	MPa	ASTM D638
Fracture, 23°C	140 - 252	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	2.7 - 4.1	%	ASTM D638
Fracture, 23°C	1.9 - 4.1	%	ISO 527-2
Flexural Modulus			
23°C	8180 - 11000	MPa	ASTM D790
23°C	7250 - 14100	MPa	ISO 178
Flexural Strength (23°C)	96.5 - 317	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.7 - 18	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	34 - 100	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	95 - 120	J/m	ASTM D256
23°C	6.0 - 18	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	287 - 291	°C	ASTM D648

1.8 MPa, not annealed	288 - 290	°C	ISO 75-2/A
Melting Temperature	295	°C	ISO 11357-3
Linear thermal expansion coefficient			
Flow	1.8E-5 - 3.7E-5	cm/cm/°C	ASTM D696
Flow	2.0E-5 - 2.5E-5	cm/cm/°C	ISO 11359-2
Lateral	3.9E-5 - 8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
23°C	1.0E+11 - 2.0E+14	ohms·cm	ASTM D257
23°C	1.0E+14 - 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength			
23°C	22 - 28	kV/mm	ASTM D149
23°C	30	kV/mm	IEC 60243-1
Comparative Tracking Index	297 - 409	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 85.1	°C	
Drying Time	3.0 - 7.2	hr	
Suggested Max Moisture	0.050 - 0.052	%	
Rear Temperature	295 - 300	°C	
Middle Temperature	299 - 318	°C	
Front Temperature	299 - 323	°C	
Nozzle Temperature	290	°C	
Processing (Melt) Temp	281 - 323	°C	
Mold Temperature	90.0 - 108	°C	
Back Pressure	0.172 - 6.00	MPa	
Injection instructions			

This data represents typical values that have been calculated from all products classified as: Generic Nylon 46 - Glass FiberThis information is provided for comparative purposes only.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT