

Generic HDPE - Glass Fiber

High Density Polyethylene

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic HDPE - 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	1.01 - 1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.15 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.010 - 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	59 - 86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1860 - 8280	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	29.6 - 75.8	MPa	ASTM D638
Fracture, 23°C	40.8 - 55.7	MPa	ASTM D638
23°C	22.8 - 59.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	2.8 - 10	%	ASTM D638
Fracture, 23°C	1.0 - 9.2	%	ASTM D638
Flexural Modulus (23°C)	1240 - 4230	MPa	ASTM D790
Flexural Strength (23°C)	29.0 - 91.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	52 - 160	J/m	ASTM D256
Unnotched Izod Impact (23°C)	260 - 700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	121 - 130	°C	ASTM D648
1.8 MPa, not annealed	115 - 122	°C	ASTM D648
CLTE - Flow	4.8E-5 - 7.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	9.8E+15 - 1.0E+16	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	Test Method
Drying Temperature	76.5 - 79.5	°C	
Drying Time	2.0 - 2.5	hr	
Rear Temperature	231 - 246	°C	

Middle Temperature	231 - 246	°C
Front Temperature	225 - 246	°C
Processing (Melt) Temp	212 - 234	°C
Mold Temperature	37.8 - 44.0	°C
Injection Pressure	86.2 - 103	MPa
Back Pressure	0.345 - 0.517	MPa

Injection instructions

This data represents typical values that have been calculated from all products classified as: Generic HDPE - 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

