

Generic PPA - Glass Fiber, Long

Polyphthalamide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Long glass fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.63 - 1.67	g/cm ³	ASTM D792
23°C	1.63 - 1.66	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.075 - 0.20	%	ASTM D955
23°C	0.060 - 0.48	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.20 - 0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	18000 - 19300	MPa	ASTM D638
23°C	18500 - 20300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200 - 232	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	1.8 - 1.9	%	ASTM D638
Fracture, 23°C	1.4 - 2.0	%	ISO 527-2
Flexural Modulus			
23°C	17200 - 18100	MPa	ASTM D790
23°C	16900 - 17800	MPa	ISO 178
Flexural Stress (23°C)	359 - 395	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	210 - 310	J/m	ASTM D256
23°C	38 - 42	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	790 - 1200	J/m	ASTM D256
23°C	70 - 78	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	259 - 282	°C	ASTM D648
1.8 MPa, not annealed	271 - 275	°C	ISO 75-2/A

CLTE - Flow	1.2E-5 - 3.1E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	120 - 135	°C	
Processing (Melt) Temp	324 - 325	°C	
Mold Temperature	135 - 152	°C	
Injection instructions			

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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

