

Nycast GF

Polyamide 6

Cast Nylons Ltd.

Message:

Offering improved tensile, compressive and flexural properties over conventional unfilled NYCAST grades, NYCAST GF (Glass Filled)-30% provides increased load bearing characteristics and is the choice in applications where added stiffness, rigidity and dimensional stability are required.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Compressive Strength		
	Good Dimensional Stability		
	High Rigidity		
	High Stiffness		
	High Tensile Strength		
Uses	Automotive Applications		
	Bearings		
	Bushings		
	Construction Applications		
	Marine Applications		
	Mining Applications		
	Seals		
	Textile Applications		
	Wear Strip		
Forms	Preformed Parts		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.50 to 0.60	%	
Saturation	1.1 to 1.2	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116 to 120		ASTM D785
Durometer Hardness (Shore D)	84 to 85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3790 to 5170	MPa	ASTM D638
Tensile Strength	66.9 to 79.3	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 5.5	%	ASTM D638
Flexural Modulus	3450 to 3930	MPa	ASTM D790

Flexural Strength	121 to 128	MPa	ASTM D790
Compressive Modulus	2830 to 3070	MPa	ASTM D695
Compressive Strength	117 to 121	MPa	ASTM D695
Deformation Under Load	0.400	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32 to 48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	182 to 188	°C	
1.8 MPa, Unannealed	118 to 124	°C	
Continuous Use Temperature	110	°C	ASTM D794
Melting Temperature	259 to 261	°C	
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
Service Temperature - Intermittent	166	°C	

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

