

Cast Nylons Nycast® GF 30% Glass Filled Cast Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Offering improved tensile, compressive and flexural properties over conventional unfilled cast nylon, 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. Data provided by the manufacturer, Cast Nylons Limited.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cast-Nylons-Nycast-GF-30-Glass-Filled-Cast-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Water Absorption	0.50 - 0.60 %	0.50 - 0.60 %	24 hrs; ASTM D570
Water Absorption at Saturation	1.1 - 1.2 %	1.1 - 1.2 %	ASTM D570
Deformation	0.40 %	0.40 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116 - 120	116 - 120	ASTM D785
Hardness, Shore D	84 - 85	84 - 85	ASTM D2240
Tensile Strength	66.9 - 79.3 MPa	9700 - 11500 psi	ASTM D638
Elongation at Break	2.0 - 5.5 %	2.0 - 5.5 %	ASTM D638
Tensile Modulus	3.79 - 5.17 GPa	550 - 750 ksi	ASTM D638
Flexural Strength	121 - 128 MPa	17500 - 18500 psi	ASTM D790
Flexural Modulus	3.45 - 3.93 GPa	500 - 570 ksi	ASTM D790
Compressive Strength	117 - 121 MPa	17000 - 17500 psi	ASTM D695
Compressive Modulus	2.83 - 3.14 GPa	410 - 455 ksi	ASTM D695
Izod Impact, Notched	0.320 - 0.481 J/cm	0.600 - 0.900 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	68.4 µm/m-°C	38.0 µin/in-°F	ASTM D696
Melting Point	259 - 261 °C	499 - 501 °F	ASTM D789
Maximum Service Temperature, Air	110 °C	230 °F	Continuous

Thermal Properties	166 °C Metric	330 °F English	Intermittent Comments
Deflection Temperature at 0.46 MPa (66 psi)	182 - 188 °C	360 - 370 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	118 - 124 °C	245 - 255 °F	ASTM D648

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