

Tecnoprene® HF GF/30 V0 NAT005

Polypropylene
Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, V0, halogen free

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E187982-101302731 • E477602-102433061
Search for UL Yellow Card	• Celanese Corporation • Tecnoprene®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Additive	• Flame Retardant • Flame Retardant
Features	• Flame Retardant • Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.34 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 g/10 min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	0.60 to 0.90 %	
Flow	0.20 to 0.50 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	8400 MPa	ISO 527-1/1A
Tensile Stress (Break)	80.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5 %	ISO 527-2/1A/5
Flexural Modulus (23°C)	8000 MPa	ISO 178
Flexural Stress (23°C)	125 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.8 kJ/m ²	ISO 179/1eA

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	140 °C	ISO 75-2/A
Vicat Softening Temperature	138 °C	ISO 306/B50

Electrical	Nominal Value Unit	Test Method
Comparative Tracking Index ³	600 V	IEC 60112

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	V-0	UL 94
Glow Wire Flammability Index (0.8 mm)	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.8 mm)	775 °C	IEC 60695-2-13

Injection	Nominal Value Unit
Drying Temperature	80 to 100 °C
Drying Time	2.0 to 3.0 hr
Rear Temperature	180 to 200 °C
Middle Temperature	190 to 210 °C
Front Temperature	200 to 220 °C
Nozzle Temperature	205 to 225 °C
Mold Temperature	50 to 80 °C



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Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 100 drops



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Where to Buy

Supplier

Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

Web: <http://www.celanese.com/engineered-materials>

Distributor

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.

Telephone: +33-4-67-49-55-37

Web: <http://www.gazechim.com/>

Availability: Belgium, France, Netherlands, Romania, Spain, United Kingdom

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

SNETOR Distribution

SNETOR Distribution is a Pan European distribution company. Contact SNETOR for availability of individual products by country.

Telephone: +33-1-4904-8888

Web: <http://www.snetor.com/>

Availability: Bulgaria, Croatia, Czech Republic, France, Hungary, Poland, Romania, Serbia, Slovakia, Slovenia

