

Tecnoprene® HF GF/20 V0

Polypropylene
Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Polypropylene, homopolymer, 20% glass fiber reinforced, chemically coupled, V0, halogen free, laser markable

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E187982-101302731
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 • Laser Markable
Processing Method	• Injection Molding
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) • Specific Volume vs Temperature (ISO 11403-2)

Physical	Nominal Value Unit	Test Method
Density	1.24 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 g/10 min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	0.70 to 0.90 %	
Flow	0.30 to 0.60 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	6500 MPa	ISO 527-1
Tensile Stress (Break)	66.0 MPa	ISO 527-2/5
Tensile Strain (Break)	3.0 %	ISO 527-2/5
Flexural Modulus (23°C)	6200 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	5.0 kJ/m ²	
23°C	6.5 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	24 kJ/m ²	
23°C	30 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	137 °C	
Vicat Softening Temperature	135 °C	ISO 306/B50

Electrical	Nominal Value Unit	Test Method
Surface Resistivity (23°C)	5.9E+15 ohms	IEC 62631-3-2
Volume Resistivity (23°C)	3.7E+13 ohms·m	IEC 62631-3-1
Electric Strength ⁴ (23°C)	40 kV/mm	IEC 60243-1
Dielectric Constant (2.00 GHz)	3.30	IEC 61189-2-721

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.6 mm	V-0	
3.2 mm	V-0	



Tecnoprene® HF GF/20 V0

Polypropylene

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

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

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² 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.

³ Typical properties: these are not to be construed as specifications.

⁴ AC



Tecnoprene® HF GF/20 V0

Polypropylene

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

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

