

TechnoGreen PP LGF 20-10-04 M UHI (82525)

Polypropylene
TechnoCompound GmbH

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Technical Data

Product Description

PP long glass fiber 20%, ultra high impact strength

Applications: injection molding, automotive underbody

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • Technical Datasheet (German)
Search for UL Yellow Card	• TechnoCompound GmbH
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Long Glass Fiber, 20% Filler by Weight
Features	• Ultra High Impact Resistance
Uses	• Automotive Applications
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
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Density	1.07 g/cm ³	ISO 1183
Ash Content (625°C)	24 %	ISO 3451

Mechanical	Nominal Value Unit	Test Method
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Tensile Modulus	4400 MPa	ISO 527-2
Tensile Stress (Yield)	77.0 MPa	ISO 527-2
Tensile Strain (Yield)	2.7 %	ISO 527-2
Flexural Modulus	4500 MPa	ISO 178
Flexural Stress	85.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
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Charpy Notched Impact Strength		ISO 179/1eA
-30°C	17 kJ/m ²	
23°C	21 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	50 kJ/m ²	
23°C	60 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
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Heat Deflection Temperature		ISO 75-2/B
0.45 MPa, Unannealed	164 °C	

Additional Information	Nominal Value Unit	Test Method
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Glass Fiber Length	1.00 cm	Internal Method
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Injection	Nominal Value Unit
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Drying Temperature	80 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	0.15 %
Hopper Temperature	20 to 50 °C
Rear Temperature	210 to 245 °C
Middle Temperature	215 to 260 °C
Front Temperature	230 to 270 °C
Nozzle Temperature	240 to 280 °C
Processing (Melt) Temp	210 to 285 °C
Mold Temperature	30 to 60 °C
Injection Pressure	50.0 to 130 MPa
Holding Pressure	30.0 to 50.0 MPa
Back Pressure	0.00 to 1.50 MPa



Injection	Nominal Value Unit
Screw Speed	40 to 60 rpm

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



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Where to Buy

Supplier

TechnoCompound GmbH

, Germany

Telephone: +49-6751-85605

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

Distributor

Please contact the supplier to find a distributor for TechnoGreen PP LGF 20-10-04 M UHI (82525)

