

Technical Data Sheet**Network Polymers Pp 30 0500 GF40**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Chemically Coupled • Heat Stabilized		
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ²			ASTM D638
Break, 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	15300 psi	106 MPa	
Tensile Elongation ²			ASTM D638
Break, 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.8 %	2.8 %	
Flexural Modulus - Tangent ³			ASTM D790
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.16E+6 psi	7980 MPa	
Flexural Strength ³			ASTM D790
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	21400 psi	148 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.9 ft·lb/in	100 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded	323 °F	162 °C	
Vicat Softening Temperature	293 °F	145 °C	ASTM D1525
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	40 %	40 %	ASTM D2584

Notes

¹ Procedure A

² Type I, 2.0 in/min (51 mm/min)

³ 0.050 in/min (1.3 mm/min)

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

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Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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