

Technical Data Sheet

Network Polymers Pp 30 0100 GF40

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

General			
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)	1.5 g/10 min	1.5 g/10 min	ASTM D1238
Water Absorption (24 Hr)	0.050 %	0.050 %	ASTM D570

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	13500 psi	93.1 MPa	
Tensile Elongation ²			ASTM D638
Break, 73°F (23°C), 0.125 In (3.18 Mm), Injection Molded	3.0 %	3.0 %	
Flexural Modulus - Tangent ³			ASTM D790
73°F (23°C), 0.125 In (3.18 Mm), Injection Molded	1.10E+6 psi	7580 MPa	
Flexural Strength ³			ASTM D790
73°F (23°C), 0.125 In (3.18 Mm), Injection Molded	22500 psi	155 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	2.1 ft-lb/in	110 J/m	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness			ASTM D785
R-scale, Injection Molded	112	112	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed, 0.125 In (3.18 Mm), Injection Molded	325 °F	163 °C	
264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm), Injection Molded	310 °F	154 °C	
Vicat Softening Temperature	293 °F	145 °C	ASTM D1525
Melting Temperature	325 °F	163 °C	ASTM D785
CLTE - Flow	1.5E-5 in/in/°F	2.7E-5 cm/cm/°C	ASTM D696

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	520 V/mil	20 kV/mm	ASTM D149

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (@1.5mm)	HB	HB	UL 94

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)