

Technical Data Sheet

Polyfort J-60/20/E NATLNAT



Polypropylene, Homopolymer

Product Description

Polyfort J-60/20/E NATLNAT is a Polypropylene Homopolymer Glass Fiber, 20% filled material. Features include: Chemically Coupled, and Homopolymer.

Regulatory Status

For regulatory compliance information, see J-60/20/E NATLNAT [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Attribute	Chemically Coupled; Homopolymer
Forms	Pellets
Filler/Reinforcement	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	9.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.04	g/cm ³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	68.9	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	3.5	%	ASTM D638
Flexural Modulus, (23 °C, Tangent)	3790	MPa	ASTM D790
Tensile Modulus, (23 °C)	4140	MPa	ASTM D638
Flexural Strength, (23 °C)	93.1	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	64	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	100 to 110		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	149	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	157	°C	ASTM D648
Additional Information			
Water Absorption at 24 hrs	0.03	%	ASTM D570



Injection Parameters	Nominal Value	Units
Drying Time	2	hr
Drying Temperature	77	°C
Suggested Max Moisture	0.2	%
Nozzle Temperature	182 to 193	°C
Processing (Melt) Temp	199 to 232	°C
Front Temperature	182 to 199	°C
Middle Temperature	204 to 227	°C
Rear Temperature	199 to 210	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.00 to 0.689	MPa
Mold Temperature	32 to 71	°C

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.

Company Information

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

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