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.

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/cm³	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