

Technical Data Sheet

Polyfort RPP40EA35UL-NA GAPEXNAT



Polypropylene, Homopolymer

Product Description

Polyfort RPP40EA35UL-NA GAPEXNAT is a Polypropylene Homopolymer Glass Fiber, 40% filled material. Features include: Chemically Coupled.

Attribute	Chemically Coupled
Forms	Pellets
Appearance	Natural Color
Filler/Reinforcement	Glass Fiber, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	6.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.23	g/cm ³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	93.1	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	7600	MPa	ASTM D790
(23 °C, Tangent)	7690	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	3.0	%	ASTM D638
Flexural Strength, (23 °C)	140	MPa	ASTM D790
Impact			
Unnotched Izod Impact, (23 °C)	450	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	80	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	152	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	157	°C	ASTM D648
RTI Elec, (1.5 mm)	65.0	°C	UL 746B
RTI Imp, (1.5 mm)	65.0	°C	UL 746B
RTI Str, (1.5 mm)	65.0	°C	UL 746B
UL Information			
Flame Rating	HB		UL 94
UL File Number	E79238N		

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	71 to 82	°C
Nozzle Temperature	232 to 260	°C
Processing (Melt) Temp	221 to 238	°C
Front Temperature	232 to 260	°C
Middle Temperature	227 to 243	°C
Rear Temperature	221 to 238	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 to 0.345	MPa
Mold Temperature	38 to 66	°C
Cushion	5.08 to 12.7	mm