Technical Data Sheet

Polyfort RPP25EA55HB-WHWHI

Polypropylene, Homopolymer

Product Description

Polyfort RPP25EA55HB-WHWHI is a Polypropylene Homopolymer Glass Fiber, 25% filled material and is typically used in Injection Molding applications. Features include: Chemically Coupled.

Processing Method	Injection Molding
Attribute	Chemically Coupled
Forms	Pellets
Appearance	White
Filler/Reinforcement	Glass Fiber, 25%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	5.3	g/10 min	ASTM D1238
Density - Specific Gravity	1.09	g/cm³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	57.9	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	3910	MPa	ASTM D790
(23 °C, Tangent)	4030	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	3.0	%	ASTM D638
Flexural Strength, (23 °C)	86.9	MPa	ASTM D790
Impact			
Gardner Impact	0.339	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	330	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	53	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	110		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	142	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	154	°C	ASTM D648

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