

Technical Data Sheet

Polyfort RPP25DZ08BKBLK



Polypropylene, Homopolymer

Product Description

Polyfort RPP25DZ08BKBLK is a Polypropylene Homopolymer Glass Bead\Glass Fiber, 25% filled material and is typically used in Injection Molding applications.

Processing Method	Injection Molding
Forms	Pellets
Appearance	Black
Filler/Reinforcement	Glass Bead\Glass Fiber, 25%

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	1.08	g/cm³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	44.8	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	2630	MPa	ASTM D790
(23 °C, Tangent)	2960	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	5.0	%	ASTM D638
Flexural Strength, (23 °C)	67.6	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C)	0.339	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	350	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	37	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	141	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	152	°C	ASTM D648
UL Information			
Flame Rating			
(1.5 mm)	HB		UL 94
(3.0 mm)	HB		UL 94
UL File Number	E51193		

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