

Technical Data Sheet

**Polyfort RPP30EB83BK-BK GAPEX HPBLK**



Polypropylene, Homopolymer

**Product Description**

Polyfort RPP30EB83BK-BK GAPEX HPBLK is a Polypropylene Homopolymer Glass Fiber, 30% filled material. Features include: Chemically Coupled, and Homopolymer.

<b>Attribute</b>	Chemically Coupled; Homopolymer
<b>Forms</b>	Pellets
<b>Filler/Reinforcement</b>	Glass Fiber, 30%

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	9.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (23 °C)	84.8	MPa	ASTM D638
Flexural Strength at Yield, (23 °C)	119	MPa	ASTM D790
Flexural Modulus			
(23 °C, 1% Secant)	5380	MPa	ASTM D790
(23 °C, Tangent)	5550	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	85	%	ASTM D638
<b>Impact</b>			
Gardner Impact	0.339	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	430	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	91	J/m	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	146	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	157	°C	ASTM D648

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
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