

Technical Data Sheet

Polyfort TPP1B40HBBK27BLK



Polypropylene, Homopolymer

Product Description

Polyfort TPP1B40HBBK27BLK is a Polypropylene Homopolymer Talc, 40% filled material and is typically used in Injection Molding applications. Features include: Homopolymer.

Regulatory Status

For regulatory compliance information, see TPP1B40HBBK27BLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
Processing Method	Injection Molding
Attribute	Homopolymer
Forms	Pellets
Filler/Reinforcement	Talc, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	10	g/10 min	ASTM D1238
Density - Specific Gravity	1.24	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield, (23 °C, 3.18 mm)	5.0	%	ASTM D638
Tensile Strength at Yield, (23 °C, 3.18 mm)	31.0	MPa	ASTM D638
Flexural Modulus, (23 °C, 3.18 mm, Tangent)	3450	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C, 3.18 mm)	0.452	J	ASTM D3029
Notched Izod Impact, (23 °C, 3.18 mm)	27	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D, 3.18 mm)	76		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	82.2	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)	132	°C	ASTM D648
UL Information			
Flame Rating, (1.6 mm)	HB		UL 94



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Processing (Melt) Temp	199 to 227	°C
Front Temperature	177 to 221	°C
Middle Temperature	177 to 221	°C
Rear Temperature	177 to 221	°C
Injection Rate	Moderate	
Back Pressure	0.138 to 2.07	MPa
Mold Temperature	21 to 49	°C
Cushion	6.35 to 12.7	mm

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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