

# Polyfort TPP1A40HBBKBLK

## LyondellBasell Industries - Polypropylene Homopolymer

### General Information

#### Product Description

Polyfort TPP1A40HBBKBLK is a Polypropylene Homopolymer Talc, 40% filled material and is typically used in Injection Molding applications. Features include: Homopolymer.

#### General

Filler / Reinforcement	• Talc, 40% Filler by Weight
Features	• Homopolymer
Forms	• Pellets
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	4500	psi	ASTM D638
Flexural Modulus - Tangent	529000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.51	ft-lb/in	ASTM D256
Gardner Impact	4.00	in-lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	76		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	270	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	180	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 219	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	351 to 430	°F
Middle Temperature	351 to 430	°F
Front Temperature	351 to 430	°F
Processing (Melt) Temp	390 to 441	°F
Mold Temperature	70 to 120	°F
Injection Rate	Moderate	
Back Pressure	20.0 to 300	psi
Cushion	0.250 to 0.500	in