

Polyfort TPP20AJ01BK-BKBLK

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

TPP20AJ01BK-BKBLK is a Polypropylene Homopolymer Talc, 20% filled material and is typically used in Injection Molding applications. Features include: Good Dimensional Stability, Good Processability, and Homopolymer.

General

Filler / Reinforcement	• Talc, 20% Filler by Weight		
Features	• Good Dimensional Stability	• Good Processability	• Homopolymer
Uses	• Automotive Applications	• Housings	• Thin-walled Parts
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (73°F)	4800	psi	ASTM D638
Tensile Elongation (Break, 73°F)	12	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F	384000	psi	
Tangent : 73°F	426000	psi	
Flexural Strength (73°F)	7900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.51	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F)	7.9	ft·lb/in	ASTM D4812
Gardner Impact (73°F)	5.00	in·lb	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Durometer Hardness (Shore D)	73		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	264	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	160	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	399 to 410	°F
Middle Temperature	410 to 415	°F
Front Temperature	415 to 421	°F
Nozzle Temperature	421 to 424	°F
Processing (Melt) Temp	428 to 500	°F

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Injection	Nominal Value	Unit
Mold Temperature	86 to 140	°F
Back Pressure	20.0 to 50.0	psi
Screw Speed	100 to 150	rpm
Clamp Tonnage	2.0 to 3.0	tons/in ²