

Polyfort TPP20AN53NA-NANAT

LyondellBasell Industries - Polypropylene

General Information

Product Description

Polyfort TPP20AN53NA-NANAT is a Polypropylene, Unspecified Talc, 20% filled material and is typically used in Injection Molding applications. Features include: Good Dimensional Stability, and Good Impact Resistance.

General

Filler / Reinforcement	• Talc, 20% Filler by Weight
Features	• Good Dimensional Stability • Good Impact Resistance
Uses	• Automotive Applications • General Purpose
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4500	psi	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength (Yield)	6500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.69	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F)	14	ft·lb/in	ASTM D4812
Gardner Impact (0.125 in)	20.0	in·lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	250	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	155	°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
Mold Temperature	86 to 140	°F
Back Pressure	20.0 to 50.0	psi
Screw Speed	100 to 150	rpm
Injection	Nominal Value	Unit
Clamp Tonnage	2.0 to 3.0	tons/in ²