

Polyfort TPP40AC38WH-WHWHI

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Meets/Exceeds Ford Engineering Specification WSK-M4D644-A4.
Primary end use is for instrument clusters.

General

Filler / Reinforcement	• Talc, 43% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Homopolymer
Appearance	• White
Forms	• Pellets
Processing Method	• Injection Molding

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.32		ASTM D792
Density	1.30	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.7	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4210	psi	ASTM D638
Tensile Stress (Yield, 73°F)	4000	psi	ISO 527-2
Tensile Elongation (Break)	11	%	ASTM D638
Flexural Modulus	421000	psi	ASTM D790
Flexural Modulus	551000	psi	ISO 178
Flexural Strength (Yield)	7010	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.51	ft-lb/in	ASTM D256
Notched Izod Impact Strength			ISO 180
-40°F	0.81	ft-lb/in ²	
73°F	0.95	ft-lb/in ²	
Unnotched Izod Impact (73°F)	5.1	ft-lb/in	ASTM D4812
Gardner Impact	9.03	in-lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	264	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	266	°F	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	180	°F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	180	°F	

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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
Clamp Tonnage	2.0 to 3.0	tons/in ²