

Technical Data Sheet

Polyfort TPP40AE04UL-NANAT



Polypropylene, Homopolymer

Product Description

Polyfort TPP40AE04UL-NANAT is a Polypropylene Homopolymer Talc, 40% filled material and is typically used in Injection Molding applications. Features include: Heat Stabilized, and Homopolymer.

Processing Method	Injection Molding
Attribute	Heat Stabilized; Homopolymer
Forms	Pellets
Appearance	Natural Color
Additive	Heat Stabilizer
Filler/Reinforcement	Talc, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	6.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.25	g/cm ³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	33.8	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	3300	MPa	ASTM D790
(23 °C, Tangent)	4290	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	6.0	%	ASTM D638
Flexural Strength, (23 °C)	55.8	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C)	0.565	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	210	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	27	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	82.2	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	135	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C