

Technical Data Sheet

**Polyfort TPP4B40NANAT**



Polypropylene, Homopolymer

**Product Description**

Polyfort TPP4B40NANAT is a Polypropylene Homopolymer Talc, 40% filled material and is typically used in Injection Molding applications. Features include: High Impact Resistance, and Homopolymer.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Impact Resistance; Homopolymer
<b>Forms</b>	Pellets
<b>Filler/Reinforcement</b>	Talc, 40%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate	9.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (23 °C)	23.4	MPa	ASTM D638
Flexural Modulus, (23 °C, Tangent)	2140	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact	5.65	J	ASTM D3029
Notched Izod Impact, (23 °C, 3.18 mm)	130	J/m	ASTM D256
<b>Hardness</b>			
Durometer Hardness, (Shore D)	70		ASTM D2240
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	62.8	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	107	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Processing (Melt) Temp	199 to 227	°C
Front Temperature	177 to 221	°C
Middle Temperature	177 to 221	°C
Rear Temperature	177 to 221	°C
Injection Rate	Moderate	
Back Pressure	0.138 to 2.07	MPa
Mold Temperature	21 to 49	°C
Cushion	6.35 to 12.7	mm