

## Technical Data Sheet

**Polyfort PPH MT20FC SNBLK73500**

Polypropylene, Homopolymer

**Product Description**

20% talc filled PP-Homopolymer, suitable for food contact applications

<b>Processing Method</b>	Injection Molding
<b>Filler/Reinforcement</b>	Talc, 20%
<b>Resin ID</b>	PP-T

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Melt Volume Flow Rate, (230 °C/2.16 kg)	11	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.06	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	33.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	6.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2600	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	2.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	38	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	14	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	82.0	MPa	ISO 2039-1
Ball Pressure Test, (125 °C)	Pass		IEC 60695-10-2
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	84.0	°C	ISO 306
(A (10N), 50 °C/h)	152	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	109	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	58.0	°C	ISO 75-2/A
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

Glow Wire Flammability Index		
(1.5 mm)	725 °C	IEC 60695-2-12
(3.0 mm)	775 °C	IEC 60695-2-12
Glow Wire Ignition Temperature		
(1.5 mm)	750 °C	IEC 60695-2-13
(3.0 mm)	800 °C	IEC 60695-2-13
<b>UL Information</b>		
Flammability Classification		
(1.5 mm)	HB	IEC 60695-11-10, -20
(3.0 mm)	HB	IEC 60695-11-10, -20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Injection Rate	Moderate-Fast	
Mold Temperature	30 to 60	°C