

WPP PP PPH1TF2-Black

Polypropylene Homopolymer
Washington Penn Plastic Co. Inc.

Message:

WPP PP PPH1TF2-Black is a polypropylene homopolymer (PP Homopoly) product, which contains 20% talc filler. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry. The main characteristics are: heat resistance.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Good heat aging resistance		
Uses	Application in Automobile Field		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.95	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	35.0	MPa	ASTM D638
Yield	33.0	MPa	ISO 527-2/5
Yield	35.0	MPa	ISO 527-2/50
Tensile Strain (Break)	100	%	ISO 527-2/5
Flexural Modulus			
-- ²	2400	MPa	ASTM D790
-- ³	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	1.5	kJ/m ²	ISO 179
23°C	4.5	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	59	J/m	ASTM D256
-40°C	2.5	kJ/m ²	ISO 180
10°C	3.5	kJ/m ²	ISO 180
23°C	4.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	125	°C	ASTM D648
0.45 MPa, not annealed	121	°C	ISO 75-2/B
1.8 MPa, not annealed	74.0	°C	ASTM D648
1.8 MPa, not annealed	76.0	°C	ISO 75-2/A
1.8 MPa, not annealed	73.0	°C	ISO 75-2/Af

Additional Information

Tested at $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 3.6^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity unless otherwise noted.

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 1.3 mm/min |
| 3. | 2.0 mm/min |

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