



WPP PP PPH2TF2-Black

Washington Penn Plastic Co. Inc. - Polypropylene Homopolymer

Wednesday, October 9, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc, 20% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized	• Homopolymer	
Uses	• Automotive Applications	• Automotive Under the Hood	
Appearance	• Black	• Colors Available	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06	g/cm ³	ASTM D792
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	32.0	MPa	ASTM D638
Tensile Stress			
Yield	37.0	MPa	ISO 527-2/5
Yield	33.0	MPa	ISO 527-2/50
Tensile Elongation ² (Yield)	9.0	%	ASTM D638
Tensile Strain (Yield)	10	%	ISO 527-2/5
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Modulus ⁴	2400	MPa	ISO 178
Flexural Stress ⁴	46.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Notched Izod Impact Strength			
23°C	3.0	kJ/m ²	ISO 180
23°C	5.0	kJ/m ²	ISO 180/1B
Unnotched Izod Impact (23°C)	600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	124	°C	
Heat Deflection Temperature (0.45 MPa, Unannealed)	111	°C	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	71.0	°C	
Heat Deflection Temperature (1.8 MPa, Annealed)	95.0	°C	ISO 75-2/A

Additional Information

Tested at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity unless otherwise noted.

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 1.3 mm/min

⁴ 2.0 mm/min