

WPP PP PPH5TF2-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	• Medium Flow	
Uses	• Automotive Applications	• Automotive Exterior Parts	
Appearance	• Black	• Colors Available	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05	g/cm ³	ASTM D792
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/5
Tensile Strength ² (Break)	33.0	MPa	ASTM D638
Tensile Elongation ² (Break)	28	%	ASTM D638
Tensile Strain (Break)	37	%	ISO 527-2/5
Flexural Modulus ³	2600	MPa	ASTM D790
Flexural Modulus ⁴	2800	MPa	ISO 178
Flexural Stress ⁴	54.0	MPa	ISO 178
Flexural Strength ³ (Yield)	54.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	34	J/m	ASTM D256
Notched Izod Impact Strength (23°C)	3.0	kJ/m ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	101		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	73.0	°C	
Heat Deflection Temperature (1.8 MPa, Unannealed)	74.0	°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.

Notes

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

² 10 mm/min

³ 1.3 mm/min

⁴ 2.0 mm/min