



# WPP PP PPH1CF4-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	• Calcium Carbonate, 41% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Impact Resistance • Good Processability	• Good Stiffness • Heat Stabilized	• Homopolymer
Uses	• Automotive Applications	• Automotive Interior Trim	
Appearance	• Black	• Colors Available	
Processing Method	• Extrusion		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25	g/cm <sup>3</sup>	ASTM D792
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	25.0	MPa	ASTM D638
Tensile Stress			
Yield	24.0	MPa	ISO 527-2/5
Yield	25.0	MPa	ISO 527-2/50
Tensile Strength <sup>2</sup> (Break)	25.0	MPa	ASTM D638
Tensile Stress (Break)	21.0	MPa	ISO 527-2/5
Tensile Elongation <sup>2</sup> (Break)	240	%	ASTM D638
Tensile Strain (Break)	570	%	ISO 527-2/5
Flexural Modulus <sup>3</sup>	2500	MPa	ASTM D790
Flexural Modulus - Tangent	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Notched Izod Impact Strength			ISO 180
-40°C	3.0	kJ/m <sup>2</sup>	
23°C	10	kJ/m <sup>2</sup>	
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	114	°C	
Heat Deflection Temperature (0.45 MPa, Unannealed)	112	°C	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	65.0	°C	

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
1.8 MPa, Unannealed	64.0	°C	ISO 75-2/Af

### Additional Information

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

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 50 mm/min

<sup>3</sup> 1.3 mm/min