



# WPP PP PPH4GF3-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	• Glass Fiber, 30% Filler by Weight		
Features	• Good Dimensional Stability • Good Stiffness	• High Tensile Strength • Homopolymer	
Uses	• Automotive Applications	• Consumer Applications	
Appearance	• Black		

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

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	84.0	MPa	ISO 527-2/5
Flexural Modulus <sup>2</sup>	5600	MPa	ISO 178
Flexural Stress <sup>2</sup>	134	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	43	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength			
-40°C	7.0	kJ/m <sup>2</sup>	ISO 180
23°C	8.0	kJ/m <sup>2</sup>	ISO 180
23°C	8.0	kJ/m <sup>2</sup>	ISO 180/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	158	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	149	°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

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

<sup>2</sup> 2.0 mm/min