



## WPP PP PPHFGC-1

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, 10% Filler by Weight		
Features	• Chemically Coupled		
Uses	• Automotive Applications		
Forms	• Pellets		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.968	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	49.6	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength (Yield)	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	64	J/m	
23°C, 6.35 mm	32	J/m	
Unnotched Izod Impact			ASTM D256
23°C, 3.18 mm	400	J/m	
23°C, 6.35 mm	360	J/m	
Gardner Impact (23°C)	0.791	J	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	96		
Shore D	73		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	141	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	129	°C	

#### Notes

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