

WPP PP PPHFGC-2

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, 20% Filler by Weight		
Features	• Chemically Coupled		
Uses	• Automotive Applications		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	68.9	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength (Yield)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	69	J/m	
23°C, 6.35 mm	53	J/m	
Unnotched Izod Impact			ASTM D256
23°C, 3.18 mm	420	J/m	
23°C, 6.35 mm	400	J/m	
Gardner Impact (23°C)	0.904	J	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	92		
Shore D	75		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	135	°C	

Notes

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