



WPP PP PPH3MFQ-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	• Mica, 12% Filler by Weight		
Features	• Chemically Coupled		
Uses	• Automotive Applications		
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.988	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80 to 1.5	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	36.5	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength (Yield)	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	43	J/m	
23°C, 6.35 mm	32	J/m	
Unnotched Izod Impact			ASTM D256
23°C, 3.18 mm	540	J/m	
23°C, 6.35 mm	410	J/m	
Gardner Impact (23°C)	1.36	J	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	86		
Shore D	66		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	76.7	°C	

Notes

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