WPP PP PPH3MFQ-5

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, 50% Filler by Weight		
Features	• Chemically Coupled		
Uses	• Automotive Applications		
Forms	• Pellets		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	37.9	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8960	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	28	J/m	
23°C, 6.35 mm	24	J/m	
Unnotched Izod Impact			ASTM D256
23°C, 3.18 mm	120	J/m	
23°C, 6.35 mm	93	J/m	
Gardner Impact (23°C)	0.452	J	ASTM D3029
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A	94		
Shore D	76		
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	127	°C	

Notes

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