



WPP PP PPHIFR

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
Additive	• Flame Retardant	• Impact Modifier	
Features	• Flame Retardant	• Good Impact Resistance	• Impact Modified
Uses	• Appliances	• Electrical Parts	
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	1.3	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 2.0	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.3	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	1310	MPa	ASTM D790
Flexural Strength (Yield)	45.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	48	J/m	
23°C, 6.35 mm	37	J/m	
Gardner Impact (23°C)	0.904	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	87.8	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	54.4	°C	

Notes

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