



WPP PP PPH5TF2-Natural

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	• Talc, 20% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized	• Medium Flow	
Uses	• Automotive Applications	• Automotive Under the Hood	
Appearance	• Colors Available	• Natural Color	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04	g/cm ³	ASTM D792
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	34.0	MPa	ASTM D638
Tensile Stress			
Yield	32.0	MPa	ISO 527-2/5
Yield	35.0	MPa	ISO 527-2/50
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Modulus ⁴	2500	MPa	ISO 178
Flexural Stress ⁴	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	24	J/m	ASTM D256
Notched Izod Impact Strength			ISO 180
-40°C	1.7	kJ/m ²	
23°C	2.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	129	°C	ISO 75-2/B
Heat Deflection Temperature (0.45 MPa, Annealed)	130	°C	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	75.0	°C	
Heat Deflection Temperature			
1.8 MPa, Unannealed	82.0	°C	ISO 75-2/A
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/Af

Additional Information

Tested at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity unless otherwise noted.

WPP PP PPH5TF2-Natural

Washington Penn Plastic Co. Inc. - Polypropylene Homopolymer

Notes

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

² 50 mm/min

³ 1.3 mm/min

⁴ 2.0 mm/min