

# WPP PP PPC4TF1.3-Natural

Washington Penn Plastic Co. Inc. - Polypropylene Copolymer

Tuesday, January 21, 2020

## General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc, 13% Filler by Weight		
Features	• Copolymer • Good Scratch Resistance	• Heat Stabilized • Low Gloss	• UV Resistant
Uses	• Automotive Applications • Automotive Interior Trim		
Appearance	• Colors Available • Natural Color		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Stress (Break)	25.0	MPa	ISO 527-2/50
Flexural Modulus <sup>2</sup>	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	3.0	kJ/m <sup>2</sup>	
-15°C	3.3	kJ/m <sup>2</sup>	
23°C	5.0	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	120	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	°C	ISO 75-2/A

### Additional Information

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

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min