

# WPP PP PPC3TF2-Black

Polypropylene Copolymer

Washington Penn Plastic Co. Inc.

## Message:

WPP PP PPC3TF2-Black is a polypropylene copolymer (PP Copoly) product, which contains 20% talc filler. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

Features include:

Copolymer

Good processability

Good stiffness

Impact resistance

heat stabilizer

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Additive	heat stabilizer		
Features	Rigid, good		
	Copolymer		
	Impact resistance, good		
	Workability, good		
	Thermal Stability		
Uses	Application in Automobile Field		
	Car interior equipment		
Appearance	Black		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield <sup>1</sup>	28.0	MPa	ASTM D638
Yield	29.0	MPa	ISO 527-2/50
Flexural Modulus			
-- <sup>2</sup>	2100	MPa	ASTM D790
-- <sup>3</sup>	2200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	3.0	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact			
23°C	41	J/m	ASTM D256
-40°C	2.0	kJ/m <sup>2</sup>	ISO 180
10°C	3.5	kJ/m <sup>2</sup>	ISO 180
23°C	4.0	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	116	°C	ISO 75-2/B
1.8 MPa, not annealed	66.0	°C	ASTM D648, ISO 75-2/Af
1.8 MPa, not annealed	68.0	°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.			
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		
3.	2.0 mm/min		

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