

WPP PP PPH4TF4-Black

Polypropylene Homopolymer
Washington Penn Plastic Co. Inc.

Message:

WPP PP PPH4TF4-Black is a polypropylene homopolymer (PP Homopoly) product, which contains 38% talc filler. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

Features include:

- High stiffness
- Homopolymer
- Good UV resistance
- heat stabilizer
- UV stability

General Information	
Filler / Reinforcement	Talc filler, 38% filler by weight
Additive	heat stabilizer
	UV stabilizer
Features	Rigidity, high
	Homopolymer
	Good UV resistance
	Thermal Stability
Uses	Parts under the hood of a car
	Application in Automobile Field
Appearance	Black
	Available colors

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	29.0	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2/5
Yield	31.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/5
Yield	5.0	%	ISO 527-2/5
Fracture	8.0	%	ISO 527-2/5
Flexural Modulus			
-- ²	3900	MPa	ASTM D790

-- ³	3800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	24	J/m	ASTM D256
-40°C	2.0	kJ/m ²	ISO 180
23°C	2.0	kJ/m ²	ISO 180
23°C	3.0	kJ/m ²	ISO 180/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	132	°C	ISO 75-2/B
0.45 MPa, annealed	103	°C	ISO 75-2/B
1.8 MPa, not annealed	87.0	°C	ASTM D648
1.8 MPa, not annealed	89.0	°C	ISO 75-2/A
1.8 MPa, not annealed	83.0	°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.			
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		
3.	2.0 mm/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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