

WPP PP PPH2GF3-Black

Polypropylene Homopolymer
Washington Penn Plastic Co. Inc.

Message:

WPP PP PPH2GF3-Black is a polypropylene homopolymer (PP Homopoly) product, which contains a 30% glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. WPP PPH2GF3-Black applications include the automotive industry and consumer goods.

Features include:

- high strength
- Homopolymer
- Good dimensional stability
- Good stiffness

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Features	Good dimensional stability
	Rigid, good
	High tensile strength
	Homopolymer
Uses	Application in Automobile Field
	Consumer goods application field
Appearance	Black
	Available colors

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	75.0	MPa	ISO 527-2/50
Fracture ¹	78.0	MPa	ASTM D638
Fracture	78.0	MPa	ISO 527-2
Fracture	88.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	6.5	%	ISO 527-2/50
Fracture ²	6.0	%	ASTM D638
Fracture	6.5	%	ISO 527-2/50
Flexural Modulus			

-- ³	5100	MPa	ASTM D790
-- ⁴	5400	MPa	ISO 178
Flexural Stress ⁵	118	MPa	ISO 178
Ultimate Tensile Strength ⁶	80.0	MPa	ISO 527
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	43	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	95	J/m	ASTM D256
-40°C	6.5	kJ/m ²	ISO 180
23°C	9.0	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	600	J/m	ASTM D256
23°C	35	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	156	°C	ISO 75-2/B
1.8 MPa, not annealed	148	°C	ASTM D648
1.8 MPa, not annealed	146	°C	ISO 75-2/A
1.8 MPa, not annealed	141	°C	ISO 75-2/Af
Vicat Softening Temperature	161	°C	ASTM D1525
Additional Information			
Material is tested at 73 ± 3°F and 50 ± 5% Relative Humidity unless otherwise noted.			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	50 mm/min		
5.	2.0 mm/min		
6.	5 mm/min		

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