

WPP PP PRC25GF3-Black

Polypropylene Homopolymer
Washington Penn Plastic Co. Inc.

Message:

WPP PP PRC25GF3-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 PRC25GF3-Black applications include the automotive industry and consumer goods.

Features include:

- environmental protection/green
- high strength
- Homopolymer
- Good dimensional stability
- Good stiffness

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Recycled Content	Yes, 25%
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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	78.0	MPa	ASTM D638
Yield ²	84.0	MPa	ASTM D638
Yield	79.0	MPa	ISO 527-2/5
Yield	86.0	MPa	ISO 527-2/50
Tensile Elongation ³ (Break)	6.0	%	ASTM D638
Flexural Modulus			
-- ⁴	4900	MPa	ASTM D790
Secant ⁵	5100	MPa	ASTM D790
-- ⁶	5200	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.5	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	94	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)	610	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	158	°C	ASTM D648
0.45 MPa, not annealed	157	°C	ISO 75-2/B
1.8 MPa, not annealed	147	°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
Additional Information			
Tested at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity unless otherwise noted.			
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		

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