

WPP PP PPC5GF2-Black

Polypropylene Copolymer
Washington Penn Plastic Co. Inc.

Message:

WPP PP PPC5GF2-Black is a polypropylene copolymer (PP Copoly) product, which contains a 20% glass fiber reinforced material. 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:
Impact modification
heat stabilizer

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight
Additive	Impact modifier heat stabilizer
Features	Impact modification Thermal Stability
Uses	Application in Automobile Field Automotive exterior parts
Appearance	Black Available colors Natural color

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	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 Modulus	4800	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	67.0	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2/5
Yield	71.0	MPa	ISO 527-2/50
Fracture	62.0	MPa	ISO 527-2/5
Flexural Modulus			
-- ²	3600	MPa	ASTM D790
-- ³	3800	MPa	ISO 178
Flexural Stress ⁴	96.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.5	kJ/m ²	ISO 179

Notched Izod Impact			
23°C	92	J/m	ASTM D256
-40°C	6.5	kJ/m ²	ISO 180
23°C	9.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	158	°C	ISO 75-2/B
0.45 MPa, not annealed	155	°C	ISO 75-2/Bf
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	140	°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		
4.	2.0 mm/min		

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