WPP PP PPC5GF2-Natural

Washington Penn Plastic Co. Inc. - Polypropylene Copolymer

Wednesday, October 9, 2019

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Heat Stabilized	• Impact Modified	
Uses	• Automotive Applications	• Automotive Exterior Parts	
Appearance	• Colors Available	• Natural Color	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.03	g/cm³	ASTM D792
Density	1.03	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5200	MPa	ISO 527-2/1
Tensile Strength [2] (Yield)	80.0	MPa	ASTM D638
Tensile Stress			
Yield	74.0	MPa	ISO 527-2/5
Yield	82.0	MPa	ISO 527-2/50
Flexural Modulus [3]	3600	MPa	ASTM D790
Flexural Modulus [4]	3800	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179
Notched Izod Impact (23°C)	83	J/m	ASTM D256
Notched Izod Impact Strength			ISO 180
-40°C	7.0	kJ/m²	
23°C	8.0	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	158	°C	
Heat Deflection Temperature (0.45 MPa, Unannealed)	157	°C	ISO 75-2/B
Heat Deflection Temperature			
1.8 MPa, Unannealed	146	°C	ISO 75-2/A
1.8 MPa, Unannealed	138	°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

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Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 50 mm/min

[3] 1.3 mm/min

[4] 2.0 mm/min