WPP PP PRC25TF2HFL-Black

Washington Penn Plastic Co. Inc. - Polypropylene Homopolymer

Wednesday, October 9, 2019

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc, 20% Filler by Weight		
Additive	• Heat Stabilizer		
Recycled Content	• Yes, 25%		
Features	• Heat Stabilized	• High Flow	
Uses	• Automotive Applications	• Automotive Exterior Parts	
Appearance	• Black	• Colors Available	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07	g/cm³	ASTM D792
Density	1.07	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	31.0	MPa	ASTM D638
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/5
Tensile Elongation [2] (Break)	20	%	ASTM D638
Tensile Strain (Break)	10	%	ISO 527-2/5
Flexural Modulus [3] (6.00 mm)	2600	MPa	ASTM D790
Flexural Modulus [4]	2200	MPa	ISO 178
Flexural Strength [3] (6.00 mm)	48.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	3.0	kJ/m²	ISO 179
Notched Izod Impact			ASTM D256
-10°C, 6.00 mm	21	J/m	
23°C, 6.00 mm	32	J/m	
Notched Izod Impact Strength			ISO 180
-40°C	2.0	kJ/m²	
-10°C	2.4	kJ/m²	
23°C	3.5	kJ/m²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	94		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.00 mm	140	°C	
Heat Deflection Temperature (0.45 MPa, Unannealed)	122	°C	ISO 75-2/B

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	73.0	°C	ISO 75-2/A
1.8 MPa, Unannealed	71.0	°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.

Notes

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

[2] 51 mm/min

[3] 30 mm/min

[4] 2.0 mm/min