WPP PP PPH2UFO-UV DX9 Black

Washington Penn Plastic Co. Inc. - Polypropylene Homopolymer

Wednesday, October 9, 2019

General Information

Product Description

The properties shown below are typical for a polypropylene homopolymer. This basic product satisfies the needs of many applications.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Homopolymer	• Medium Flow	
Uses	• Automotive Applications		
Appearance	• Black	• Colors Available	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.905	g/cm³	ASTM D792
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	36.0	MPa	ASTM D638
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Flexural Modulus [3]	1600	MPa	ASTM D790
Flexural Modulus [4]	1500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	2.0	kJ/m²	ISO 179
Multi-Axial Instrumented Impact Energy (23°C)	5.00	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	113	°C	
Heat Deflection Temperature (1.8 MPa, Unannealed)	58.0	°C	ISO 75-2/A

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] 50 mm/min

[3] 13 mm/min

[4] 2.0 mm/min