

WPP PP PPH2TF2-Natural

Polypropylene Homopolymer
Washington Penn Plastic Co. Inc.



Prospector

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Talc Filler, 20% Filler by Weight		
Features	• Food Contact Acceptable	• Homopolymer	• Medium Flow
Uses	• Automotive Applications	• Industrial Applications	
Appearance	• Colors Available	• Natural Color	
Forms	• Pellets		

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ² (Yield)	35.9 MPa	ASTM D638
Flexural Modulus - Tangent ³	2760 MPa	ASTM D790
Flexural Strength ³	57.9 MPa	ASTM D790

Additional Information

Filler Content, ASTM D5630: 20%

Injection	Nominal Value Unit
Drying Temperature	71.1 to 87.8 °C
Drying Time	1.0 hr
Rear Temperature	224 to 229 °C
Middle Temperature	224 to 229 °C
Front Temperature	227 to 232 °C
Nozzle Temperature	232 to 243 °C
Mold Temperature	15.6 to 48.9 °C
Injection Pressure	4.14 to 7.58 MPa
Holding Pressure	1.72 to 4.83 MPa
Back Pressure	0.689 to 1.38 MPa
Clamp Tonnage	3.4 to 5.5 kN/cm ²
Cushion	3.18 to 6.35 mm

Injection Notes

Injection Speed: 1.5 to 2.5 in/s
Zone 4 Temperature: 450 to 460°F
Hot Runner Temperature: 450 to 480°F
Hydraulic Oil Temperature: 110 to 125°F
Shot Capacity vs. Barrel Capacity: 2.5 to 4
Screw Decompression: 0.1 to 0.25 in

Notes

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

² 51 mm/min

³ 13 mm/min

Revision History

Document Created: Thursday, September 22, 2011
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