

WPP PP PPH3TF2-Natural

Washington Penn Plastic Co. Inc. - Polypropylene Homopolymer

Wednesday, October 9, 2019

General Information

Product Description

Properties shown below for this filled blend are typical for a 20% talc-reinforced polypropylene homopolymer. This basic product satisfies many application needs. Special compounds are available.

General

Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	Talc, 20% Filler by Weight		
Features	High Flow	High Heat Resistance	 Homopolymer
Uses	 Automotive Applications 	Automotive Interior Trim	
Appearance	 Colors Available 	Natural Color	
Forms	• Pellets		

ASTM & ISO Properties 1

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Nominal Value	Unit	Test Method			
1.03	g/cm³	ASTM D792			
6.0	g/10 min	ASTM D1238			
Nominal Value	Unit	Test Method			
34.0	MPa	ASTM D638			
2300	MPa	ASTM D790			
Nominal Value	Unit	Test Method			
26	J/m	ASTM D256			
Nominal Value	Unit	Test Method			
		ASTM D648			
74.0	°C				
	Nominal Value 1.03 6.0 Nominal Value 34.0 2300 Nominal Value 26 Nominal Value	Nominal Value Unit 1.03 g/cm³ 6.0 g/10 min			

Additional Information

Tested at $23 \pm 2^{\circ}$ C (73.4 ± 3.6°F) and $50 \pm 5\%$ relative humidity unless otherwise noted.

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	71 to 88	°C
Drying Time	1.0	hr
Rear Temperature	221 to 227	°C
Middle Temperature	221 to 227	°C
Front Temperature	224 to 229	°C
Nozzle Temperature	229 to 241	°C
Mold Temperature	16 to 49	°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/cm²
Cushion	3.18 to 6.35	mm



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Injection Notes

Injection Speed: 1.5 to 2.5 in/s
Zone 4 Temperature: 445 to 455°F
Hot Runner Temperature: 445 to 475°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 50 mm/min

³ 1.3 mm/min

