

WPP PP WPP2194-Natural

Washington Penn Plastic Co. Inc. - Polypropylene Copolymer

Wednesday, October 9, 2019

General Information					
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Material Status	Commercial: Active				
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America		
Features	CopolymerDurable	 Good Stiffness Good Toughness	High Impact Resistance		
Uses	 Automotive Applications 	Automotive Interior Trim			
Appearance	 Colors Available 	 Natural Color 			
Forms	Pellets				

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	0.898	g/cm³	ASTM D792		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ² (Yield)	20.0	MPa	ASTM D638		
Flexural Modulus - Tangent ³	900	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (23°C)	540	J/m	ASTM D256		
Instrumented Dart Impact ⁴ (-30°C)	22.0	J	ASTM D3763		

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	71 to 88	°C		
Drying Time	1.0	hr		
Rear Temperature	218 to 224	°C		
Middle Temperature	224 to 229	°C		
Front Temperature	224 to 229	°C		
Nozzle Temperature	218 to 229	°C		
Mold Temperature	16 to 49	°C		
Injection Pressure	4.14 to 8.27	MPa		
Holding Pressure	2.07 to 4.14	MPa		
Back Pressure	0.345 to 1.03	MPa		
Clamp Tonnage	3.4 to 5.5	kN/cm²		
Cushion	3.18 to 6.35	mm		

Injection Speed: 1.25 to 2.75 in/s Zone 4 Temperature: 445 to 455°F Hot Runner Temperature: 425 to 455°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



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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 2.20 m/sec

