

WPP TPO TPO-425 UV Black

Compounded Polypropylene
Washington Penn Plastic Co. Inc.

Message:

WPP TPO TPO-425 UV Black is a composite polypropylene product containing 20% mineral fillers. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

Features include:

- Hard
- Good UV resistance
- Good toughness
- Impact resistance
- soft

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	UV stabilizer		
Features	Impact resistance, good		
	Good UV resistance		
	Medium liquidity		
	Good toughness		
	ductility		
	Medium hardness		
Uses	Application in Automobile Field		
Appearance	Black		
	Available colors		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Break)	130	%	ISO 527-2/50
Flexural Modulus ¹	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	29	kJ/m²	ISO 180
Instrumented Dart Impact ²			ASTM D3763
-15°C	19.0	J	ASTM D3763
23°C	17.0	J	ASTM D3763

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	96.0	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM E831
Flow: -30 to 100°C	6.2E-5	cm/cm/°C	ASTM E831
Lateral: -30 to 100°C	1.5E-4	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 87.8	°C	
Drying Time	1.0	hr	
Rear Temperature	199 - 210	°C	
Middle Temperature	210 - 216	°C	
Front Temperature	216 - 227	°C	
Nozzle Temperature	210 - 227	°C	
Mold Temperature	15.6 - 48.9	°C	
Injection Pressure	4.14 - 10.3	MPa	
Holding Pressure	1.72 - 4.14	MPa	
Back Pressure	0.517 - 1.03	MPa	
Clamp Tonnage	3.4 - 5.5	kN/cm ²	
Cushion	3.18 - 6.35	mm	
Injection instructions			
Injection Speed: 0.5 to 2.75 in/sZone 4 Temperature: 420 to 445°FHot Runner Temperature: 420 to 460°FHydraulic Oil Temperature: 110 to 125°FShot Capacity vs. Barrel Capacity: 2.5 to 4Screw Decompression: 0.1 to 0.25 in			
NOTE			
1.	2.0 mm/min		
2.	2.20 m/sec		

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