



OmniPro™ TPO MF10 HSV

High Impact Resistance, High Stiffness, Mineral Reinforced, Heat & UV Stabilized, Thermoplastic Elastomer

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	15	15
Specific Gravity		D792	0.98	0.98
Filler/Reinforcement	%	D2584	10	10
Mold Shrinkage, Isotropic	in/in	D955	.010 to .016	
IMPACT				
Izod Impact Resistance				
Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	N/B	N/B
Notched 1/8" bar, -22°F	ft.-lbs/in. (J/m)	D256	6	320
Charpy Impact Resistance				
Notched 4mm bar, 23°F	ft.-lbs/in ² (kJ/m ²)	179-1/A	N/B	N/B
Unnotched 4mm bar, 23°F	ft.-lbs/in ² (kJ/m ²)	179-1/A	N/B	N/B
MECHANICAL				
Tensile Strength				
At Yield, 73°F	psi (MPa)	D638	2,500	17
Flexural Modulus	psi (MPa)	D790	160,000	1,103
Flexural Strength	psi (MPa)	D790	2,600	18
THERMAL				
Deflection Temperature				
1/8" bar, 66 psi	°F (°C)	D648	160	71
Vicat Softening Temperature	°F (°C)	D1525	280	138
FLAMMABILITY				
Flame Resistance		UL94	HB*	HB*
*Omni Internal Testing				
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			N/A	
Drying Time			N/A	
Maximum Moisture			N/A	
Rear Zone(s)			400 to 480° F	
Middle Zone(s)			420 to 500° F	
Front Zone(s)			420 to 500° F	
Nozzle			420 to 500° F	
Mold Temperature			80 to 140° F	
Melt Temperature			420 to 500° F	
Back Pressure			50 to 100 psi	

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.