



OmniTech™
HDPE TF10

10% Talc Reinforced, High Density Polyethylene

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	10	10
Specific Gravity		D792	1.03	1.03
Filler/Reinforcement	%	D2584	10	10

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	0.9	48
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MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	3,800	26
Tensile Elongation	%	D638	25	25
Flexural Modulus	psi (MPa)	D790	210,000	1,448
Flexural Strength	psi (MPa)	D790	4,000	28

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	-	-

FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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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)	400 to 480 °F
Front Zone(s)	400 to 480 °F
Nozzle	400 to 480 °F
Mold Temperature	80 to 180 °F
Melt Temperature	400 to 480 °F
Back Pressure	50 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.