



OmniTech™
PET GR45
 45% Glass Reinforced PET

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.7	1.7
Filler/Reinforcement	%	D2584	45	45

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	2.2	117
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MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	26,000	179
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	2,200,000	15,169
Flexural Strength	psi (MPa)	D790	40,000	276

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	476	247
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	250° F
Drying Time	3-4 hrs. max.
Maximum Moisture	0.02%
Rear Zone(s)	520 to 560° F
Middle Zone(s)	520 to 560° F
Front Zone(s)	520 to 580° F
Nozzle	520 to 580° F
Mold Temperature	180 to 250 °F
Melt Temperature	520 to 580° 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.