



# OmniTech™ PBT GMR40

40% Glass/Mineral Reinforced, PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	18	18
Specific Gravity		D792	1.62	1.62
Filler/Reinforcement	%	D2584	40	40

## IMPACT

Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	1.2	64
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## MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	12,000	83
Tensile Elongation	%	D638	4	4
Flexural Modulus	psi (MPa)	D790	1,200,000	8,274
Flexural Strength	psi (MPa)	D790	18,000	124

## THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	415	213
1/8" bar, 264 psi	°F (°C)	D648	375	193

## FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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## RECOMMENDED PROCESSING CONDITIONS

Drying Temperature	240 ° F
Drying Time	3-4 hrs. max.
Maximum Moisture	0.02%
Rear Zone(s)	460 to 520 ° F
Middle Zone(s)	480 to 530 ° F
Front Zone(s)	480 to 530 ° F
Nozzle	480 to 530 ° F
Mold Temperature	80 to 180 ° F
Melt Temperature	460 to 520 ° 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.