



OmniTech™
PBT GR30
 30% Glass Reinforced PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	20	20
Specific Gravity		D792	1.53	1.53
Filler/Reinforcement	%	D2584	30	30
Mold Shrinkage, Linear	in/in	D955	.001 to .003	
Mold Shrinkage, Transverse	in/in	D955	.003 to .008	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.5	80
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MECHANICAL

Tensile Strength				
At Yield, 73°F	psi (MPa)	D638	17,200	119
At Break, 73°F	psi (MPa)	D638	17,200	119
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,100,000	7,585
Flexural Strength	psi (MPa)	D790	28,000	193

THERMAL

Deflection Temperature				
1/8" bar, 66 psi	°F (°C)	D648	420	216
1/8" bar, 264 psi	°F (°C)	D648	400	204

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.