



OmniTech™
PBT 357 FR

Flame Resistant, Impact Modified, PBT Alloy

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	18	18
Specific Gravity		D792	1.3	1.3
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	6	320
MECHANICAL				
Tensile Strength At Yield, 73 °F	psi (MPa)	D638	6,800	47
Tensile Elongation	%	D638	<10	<10
Flexural Modulus	psi (MPa)	D790	300,000	2,069
Flexural Strength	psi (MPa)	D790	12,000	83
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	165	75
FLAMMABILITY				
UL File Number E138590				
Flame Resistance	.118" (3.0mm)	UL94	V-0/5VB	V-0/5VB
Flame Resistance	.059" (1.5mm)	UL94	V-0	V-0
All Color Recognition				
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			240 °F	
Drying Time			3-6 hrs. max.	
Maximum Moisture			0.02%	
Rear Zone(s)			480 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			480 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.