

OmniTech™ PBT GR17 FR0

Polybutylene Terephthalate

OMNI Plastics, LLC

Message:

17% Glass Reinforced, Flame Resistant PBT

General Information			
Filler / Reinforcement	Glass Fiber, 17% Filler by Weight		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	89.6	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4960	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	129	°C	ASTM D648
Flammability	Nominal Value	Test Method	
	V-0		

Flame Rating (3.00 mm)	5VA	Internal Method	
Injection	Nominal Value	Unit	
Drying Temperature	116	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	238 to 271	°C	
Middle Temperature	249 to 277	°C	
Front Temperature	249 to 277	°C	
Nozzle Temperature	249 to 277	°C	
Processing (Melt) Temp	238 to 271	°C	
Mold Temperature	26.7 to 82.2	°C	
Back Pressure	0.345 to 0.689	MPa	

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Recommended distributors for this material

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