

Voxel PBT B12GF45 SA

Polybutylene Terephthalate

Custom Resins Group

Message:

45% glass fiber reinforced PBT specially formulated for improved surface appearance
Has the high chemical and heat resistance of PBT combined with maximum stiffness
Suitable for tool and appliance housings, levers, sunroof components and other uses which require high mechanical properties and good appearance

General Information	
Filler / Reinforcement	Glass Fiber,45% Filler by Weight
Features	Good Chemical Resistance
	High Heat Resistance
	High Stiffness
	Pleasing Surface Appearance
Uses	Appliance Components
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.67	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	152	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	216	°C	
1.8 MPa, Unannealed	210	°C	
Peak Melting Temperature	227	°C	ASTM D3418

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