

RENATUS® B3045FA

Polyplastics - Polyethylene Terephthalate

General Information

Product Description

HB, Standard

GF Reinforced, Black Color, High Rigidity

General

Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight
Features	• High Rigidity
UL File Number	• E213445
Appearance	• Black
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PET-GF45<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	22000	psi	ISO 527-2
Tensile Strain (Break)	1.4	%	ISO 527-2
Flexural Modulus	2.25E+6	psi	ISO 178
Flexural Stress	38400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.7	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	468	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	480	V/mil	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94