

RENATUS® RH045

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
Appearance	• Black
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PET-GF45<

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.75	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	27400	psi	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	2.41E+6	psi	ISO 178
Flexural Stress	39600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	441	°F	ISO 75-2/A
CLTE - Flow	5.6E-6	in/in/°F	Internal Method
CLTE - Transverse	2.8E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	380	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Color Number	RD3002		