

DURANEX® 3405

Polyplastics - Polybutylene Terephthalate

General Information

Product Description

HB, Standard

GF45% Reinforced

General

Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight
UL File Number	• E213445
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PBT-GF45<

Properties ¹

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	23500	psi	ISO 527-2
Tensile Strain (Break)	1.7	%	ISO 527-2
Flexural Modulus	2.10E+6	psi	ISO 178
Flexural Stress	36800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.6	ft-lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	417	°F	ISO 75-2/A
CLTE - Flow (73 to 131°F)	5.6E-6	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	3.9E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	610	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Color Number	EF2001/ED3002		