

VYLOPET™ EMC-445

TOYOBO MC Corporation - Polybutylene Terephthalate + PET

General Information

Product Description

GF Reinforced

General

Material Status	• Commercial: Active
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• High Flow • Pleasing Surface Appearance
Uses	• Automotive Applications • General Purpose • Electrical/Electronic Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PBT+PET-GF40<
Revision Date	• 9/10/2025

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.20	%	
Across Flow : 2.00 mm	0.80	%	
Water Absorption (24 hr, 23°C)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	146	MPa	ISO 527
Tensile Elongation (Break)	1.6	%	ISO 527
Flexural Modulus	11100	MPa	ISO 178
Flexural Strength	194	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.0E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·m	IEC 62631-3-1



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Processing Information		
Injection		Unit
Middle Temperature	260 to 275	°C
Front Temperature	260 to 275	°C
Nozzle Temperature	260 to 275	°C
Mold Temperature	70 to 100	°C

Notes

¹ 100×100×2mmt, film gate

