

VYLOPET™ EMC-450

TOYOBO MC Corporation - Polybutylene Terephthalate + PET

General Information

Product Description

GF Reinforced

General

Material Status	• Commercial: Active
Filler / Reinforcement	• Glass Fiber, 55% Filler by Weight
Features	• High Rigidity • 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-GF55<
Revision Date	• 9/10/2025

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.82	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.20	%	
Across Flow : 2.00 mm	0.50	%	
Water Absorption (24 hr, 23°C)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	160	MPa	ISO 527
Tensile Elongation (Break)	1.3	%	ISO 527
Flexural Modulus	18500	MPa	ISO 178
Flexural Strength	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	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	7.0E-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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Injection	Unit
Middle Temperature	260 to 285 °C
Front Temperature	260 to 285 °C
Nozzle Temperature	260 to 285 °C
Mold Temperature	90 to 120 °C

Notes

¹ 100×100×2mmt, film gate

