

VYLOPET™ HC-340CG

TOYOBO MC Corporation - Polyethylene Terephthalate

General Information

Product Description

GF+MD Reinforced

General

Material Status	• Commercial: Active
Filler / Reinforcement	• Glass Fiber\Carbon Powder, 40% Filler by Weight
Features	• High Strength • Thermally Conductive
Uses	• Automotive Applications • General Purpose • Electrical/Electronic Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PET-(GF+CD)40<
Revision Date	• 9/10/2025

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.20	%	
Across Flow : 2.00 mm	0.40	%	
Water Absorption (24 hr, 23°C)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	58.0	MPa	ISO 527
Tensile Elongation (Break)	0.70	%	ISO 527
Flexural Modulus	10900	MPa	ISO 178
Flexural Strength	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.1	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	251	°C	ISO 75-2/B
1.8 MPa, Unannealed	227	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	3.0E-5	cm/cm/°C	

Processing Information

Injection	Unit
Middle Temperature	260 to 280 °C
Front Temperature	260 to 280 °C
Nozzle Temperature	260 to 280 °C
Mold Temperature	120 to 140 °C

