

VYLOPET™ EMC-701EXT

TOYOBO MC Corporation - Polybutylene Terephthalate

General Information

Product Description

Non-Reinforced

General

Material Status	• Commercial: Active
Features	• Fast Molding Cycle
Uses	• Automotive Applications • General Purpose • Electrical/Electronic Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PBT<
Revision Date	• 9/10/2025

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	1.6	%	
Across Flow : 2.00 mm	1.7	%	
Water Absorption (24 hr, 23°C)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	52.0	MPa	ISO 527
Tensile Elongation (Break)	> 20	%	ISO 527
Flexural Modulus	2100	MPa	ISO 178
Flexural Strength	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	157	°C	
CLTE			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+14	ohms·m	IEC 62631-3-1

Processing Information

Injection	Unit
Hopper Temperature	220 to 240 °C
Middle Temperature	240 to 265 °C
Front Temperature	240 to 265 °C
Nozzle Temperature	240 to 265 °C
Mold Temperature	45 to 65 °C

