

VYLOPET™ EMC-706HP

TOYOBO MC Corporation - Polybutylene Terephthalate

General Information

Product Description

Non-Reinforced

General

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

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	1.9	%	
Across Flow : 2.00 mm	1.8	%	
Water Absorption (24 hr, 23°C)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	22.0	MPa	ISO 527
Tensile Elongation (Break)	> 20	%	ISO 527
Flexural Modulus	600	MPa	ISO 178
Flexural Strength	22.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	66.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	9.0E-5	cm/cm/°C	
Transverse	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+12	ohms·m	IEC 62631-3-1

Processing Information

Injection	Unit
Middle Temperature	240 to 275 °C
Front Temperature	240 to 275 °C
Nozzle Temperature	240 to 275 °C
Mold Temperature	50 to 80 °C

