

VYLOPET™ EMC-705NZ
TOYOBO MC Corporation - Polybutylene Terephthalate

General Information	
Product Description	
Non-Reinforced	
General	
Material Status	• Commercial: Active
Features	• Clean Surface Appearance
Uses	• Automotive Applications • General Purpose • Electrical/Electronic Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PBT+PC<
Revision Date	• 9/10/2025

ASTM & ISO Properties			
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.70	%	
Across Flow : 2.00 mm	0.70	%	
Water Absorption (24 hr, 23°C)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.0	MPa	ISO 527
Tensile Elongation (Break)	> 20	%	ISO 527
Flexural Modulus	1900	MPa	ISO 178
Flexural Strength	77.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.4	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	87.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	59.0	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	
Transverse	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+13	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 90 °C

