

VYLOPET™ EMC-132-01A
 TOYOBO MC Corporation - Polyethylene Terephthalate

General Information	
Product Description	
GF Reinforced, Flame Retardant	
General	
Material Status	• Commercial: Active
Features	• Flame Retardant • Hydrolysis Resistant
Uses	• Automotive Applications • General Purpose • Electrical/Electronic Applications • Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PET-GF30FR(17)<
Revision Date	• 9/10/2025

ASTM & ISO Properties			
Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm³	ISO 1183
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	0.10	%	
Across Flow : 2.00 mm	0.60	%	
Water Absorption (24 hr, 23°C)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	154	MPa	ISO 527
Tensile Elongation (Break)	2.3	%	ISO 527
Flexural Modulus	9400	MPa	ISO 178
Flexural Strength	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.9	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	244	°C	ISO 75-2/B
1.8 MPa, Unannealed	212	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+13	ohms·m	IEC 62631-3-1



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Processing Information		
Injection		Unit
Hopper Temperature	235 to 255	°C
Middle Temperature	260 to 275	°C
Front Temperature	260 to 275	°C
Nozzle Temperature	260 to 275	°C
Mold Temperature	120 to 140	°C

Notes

¹ 100×100×2mmt, film gate

