VYLOPET™ UEMC-130-10

TOYOBO MC Corporation - Polyethylene Terephthalate

General Information

Product Description		
GF Reinforced, Flame Retardant		
General		
Material Status	• Commercial: Active	
Filler / Reinforcement	• Glass Fiber\Mineral, 43% Filler by Weight	
Features	• Flame Retardant	• High Strength
Uses	• Automotive Applications • Electrical/Electronic Applications	• General Purpose • Industrial Applications
Forms	• Pellets	
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >PET-(GF+MD)43FR(17)<	
Revision Date	• 9/10/2025	

ASTM & ISO Properties

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.80	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	118	MPa	ISO 527
Tensile Elongation (Break)	1.3	%	ISO 527
Flexural Modulus	12200	MPa	ISO 178
Flexural Strength	166	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.9	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	232	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.0E-5	cm/cm/°C	
Transverse	5.0E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.0E+13	ohms·m	IEC 62631-3-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.75 mm)	V-0		UL 94

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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

Notes

[1] 100×100×2mmt, film gate