

VYLOPET® EMC133

Polycarbonate + PBT

TOYOBO America, Inc.

Message:

VYLOPET® EMC133 is a polycarbonate polybutene terephthalate (PC PBT) product. It is available in North America. VYLOPET® The application areas of EMC133 include electrical appliances and home applications. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E51743-242561		
Features	Hydrolysis resistance		
Uses	Electrical appliances		
	Bathroom accessories		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm³	ASTM D792
	0.90		
Molding Shrinkage - Flow (3.00 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	141	MPa	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	13300	MPa	ASTM D790
Flexural Strength (Yield)	240	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	28.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	245	°C	ASTM D648
1.8 MPa, not annealed	240	°C	ASTM D648
Melting Temperature	255	°C	DSC
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746

RTI	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	25	kV/mm	ASTM D149
Arc Resistance	80.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.914 mm)	V-0		UL 94
Additional Information			
Ball Pressure Temperature, UL746, Method B: 225 °CComparative Tracking Index, IEC Pub1.112: Class 3			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	250 - 260	°C	
Mold Temperature	90.0 - 120	°C	

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