

VYLOPET® EMC310

Polycarbonate + PBT

TOYOBO America, Inc.

Message:

VYLOPET® EMC310 is a polycarbonate polybutene terephthalate (PC PBT) product. It is available in North America. VYLOPET® The application areas of EMC310 include electrical appliances and home applications. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E51743-242567		
Features	Hydrolysis resistance		
Uses	Electrical appliances		
	Bathroom accessories		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm³	ASTM D792
	0.80		
Molding Shrinkage - Flow (3.00 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	100	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	7100	MPa	ASTM D790
Flexural Strength (Yield)	145	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	35.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	57	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	240	°C	ASTM D648
1.8 MPa, not annealed	210	°C	ASTM D648
Melting Temperature	255	°C	DSC
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
RTI Elec	120	°C	UL 746
RTI Imp	120	°C	UL 746

RTI	120	°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	139	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.787 mm)	HB		UL 94
Additional Information			
Ball Pressure Temperature, UL746, Method B: 225 °CComparative Tracking Index, IEC Pub1.112: Class 2			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	255 - 265	°C	
Mold Temperature	90.0 - 120	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

