

**VYLOPET® EMC310**

Polyester

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	100	MPa	ASTM D 638
Flexural Modulus	7100	MPa	ASTM D 790
Flexural Strength	145	MPa	ASTM D 790
Rockwell Hardness	M 90	-	ASTM D 785
Taber Abrasion Resistance	35	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	57	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	40	E-6/K	ASTM D 696
DTUL @ 66 psi	240	°C	ASTM D 648
DTUL @ 264 psi	210	°C	ASTM D 648
Melting Temperature	255	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Comparative tracking index	330	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	25	kV/mm	ASTM D 149
Volume Resistivity	1E16	Ohm*cm	ASTM D 257
Arc Resistance	139	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	1590	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	130	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	255 - 265	°C	-
Mold temperature	90 - 120	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific