

**VYLOPET® EMC330**

Polyester

Toyobo Co., Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.003</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.009</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength	<b>147</b>	MPa	ASTM D 638
Flexural Modulus	<b>9700</b>	MPa	ASTM D 790
Flexural Strength	<b>190</b>	MPa	ASTM D 790
Rockwell Hardness	<b>M 95</b>	-	ASTM D 785
Taber Abrasion Resistance	<b>15</b>	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	<b>70</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>0.8</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>30</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>245</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>220</b>	°C	ASTM D 648
Melting Temperature	<b>255</b>	°C	ASTM D 3418

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Comparative tracking index	<b>270</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>25</b>	kV/mm	ASTM D 149
Volume Resistivity	<b>1E16</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>131</b>	s	ASTM D 495

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

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>130</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Melt temperature	<b>255 - 270</b>	°C	-
Mold temperature	<b>90 - 120</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific