

**TARFLON MD1500**

PC

Formosa Idemitsu Petrochemical

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>67</b>	g/10min	ISO 1133
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Modulus	<b>2200</b>	MPa	ISO 527
Yield stress	<b>60</b>	MPa	ISO 527
Stress at break	<b>58</b>	MPa	ISO 527
Strain at break	<b>90</b>	%	ISO 527
Flexural modulus, 23°C	<b>2400</b>	MPa	ISO 178
Rockwell hardness	<b>M 50</b>	-	ISO 2039-2
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Temp. of deflection under load, 1.80 MPa	<b>125</b>	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	<b>65</b>	E-6/K	ASTM D 696
<b>Electrical properties</b>			
<b>ISO Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Relative permittivity, 100Hz	<b>2.91</b>	-	IEC 62631-2-1
Relative permittivity, 1MHz	<b>2.85</b>	-	IEC 62631-2-1
Dissipation factor, 100Hz	<b>6.6</b>	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	<b>92</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>1E15</b>	Ohm*m	IEC 62631-3-1
Electric strength	<b>30</b>	kV/mm	IEC 60243-1
<b>ASTM Data</b>			
Arc Resistance	<b>110</b>	s	ASTM D 495
<b>Optical properties</b>			
<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Light Transmittance	<b>89</b>	%	ASTM D 1003
Index of Refraction	<b>1.58</b>	-	ASTM D 542
<b>Other properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Water absorption	<b>0.23</b>	%	Sim. to ISO 62
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Regional Availability**

Asia Pacific