

**TAIRILITE® AC3800**

PC

Formosa Chemicals &amp; Fibre Corp.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>13</b>	g/10min	ISO 1133
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>13</b>	g/10min	ASTM D 1238
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Strength	<b>71</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>2150</b>	MPa	ISO 178
Flexural strength	<b>114</b>	MPa	ISO 178
Izod notched impact strength, +23°C	<b>833</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>R 123</b>	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength	<b>70.6</b>	MPa	ASTM D 638
Flexural Modulus	<b>2158</b>	MPa	ASTM D 790
Flexural Strength	<b>114</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 123</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>834</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>126</b>	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	<b>V-2</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
Burning behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>6.3</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-2</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 264 psi	<b>126</b>	°C	ASTM D 648
<b>Other properties</b>			
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>120 - 130</b>	°C	-
Pre-drying - Time	<b>4 - 8</b>	h	-
Melt temperature	<b>260 - 290</b>	°C	-
Mold temperature	<b>80 - 100</b>	°C	-
Injection pressure	<b>5 - 8</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Special Characteristics**

Flame retardant, Halogen-free, Transparent