

**SABIC Cycolac® CRT3370 ABS (Europe-Africa-Middle East) (Unverified Data\*\*)**

**Categories:** [Polymer](#); [Thermoplastic](#); [ABS Polymer](#); [Acrylonitrile Butadiene Styrene \(ABS\), 20% Glass Fiber Filled](#)


**Material Notes:** CYCOLAC CRT3370 is a 17% glass reinforced injection moulding grade of ABS. It exhibits high rigidity and excellent dimensional stability combined with medium/high heat performance and good flow characteristics. It is

This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	<a href="#">1.17</a> g/cc	<a href="#">0.0423</a> lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62
Linear Mold Shrinkage, Flow	<a href="#">@Temperature 23.0 °C</a> <a href="#">0.0030 - 0.0060</a> cm/cm	<a href="#">@Temperature 73.4 °F</a> <a href="#">0.0030 - 0.0060</a> in/in	on tensile bar; SABIC Method
Melt Flow <input type="checkbox"/>	<a href="#">14</a> g/10 min <a href="#">@Load 10.0 kg,</a> Temperature 220 °C	<a href="#">14</a> g/10 min <a href="#">@Load 22.0 lb,</a> Temperature 428 °F	ISO 1133
	<a href="#">14</a> g/10 min <a href="#">@Load 10.0 kg,</a> Temperature 220 °C	<a href="#">14</a> g/10 min <a href="#">@Load 22.0 lb,</a> Temperature 428 °F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ISO 2039-2
Hardness, H358/30	<a href="#">120</a> MPa	<a href="#">17400</a> psi	ISO 2039-1
Tensile Strength at Break	<a href="#">62.0</a> MPa	<a href="#">8990</a> psi	5 mm/min; ISO 527
	<a href="#">67.0</a> MPa	<a href="#">9720</a> psi	50 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.0 %	2.0 %	50 mm/min; ISO 527
Tensile Modulus	<a href="#">5.10</a> GPa	<a href="#">740</a> ksi	1 mm/min; ISO 527
Flexural Strength	<a href="#">90.0</a> MPa	<a href="#">13100</a> psi	2 mm/min; ISO 178
Flexural Modulus	<a href="#">4.70</a> GPa	<a href="#">682</a> ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO) <input type="checkbox"/>	<a href="#">6.00</a> kJ/m <sup>2</sup> <a href="#">@Temperature -30.0 °C</a>	<a href="#">2.86</a> ft-lb/in <sup>2</sup> <a href="#">@Temperature -22.0 °F</a>	80*10*4; ISO 180/1A
	<a href="#">7.00</a> kJ/m <sup>2</sup> <a href="#">@Temperature 23.0 °C</a>	<a href="#">3.33</a> ft-lb/in <sup>2</sup> <a href="#">@Temperature 73.4 °F</a>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	<a href="#">20.0</a> kJ/m <sup>2</sup> <a href="#">@Temperature 23.0 °C</a>	<a href="#">9.52</a> ft-lb/in <sup>2</sup> <a href="#">@Temperature 73.4 °F</a>	80*10*4; ISO 180/1U
Charpy Impact, Notched <input type="checkbox"/>	<a href="#">0.600</a> J/cm <sup>2</sup> <a href="#">@Temperature -30.0 °C</a>	<a href="#">2.86</a> ft-lb/in <sup>2</sup> <a href="#">@Temperature -22.0 °F</a>	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	<a href="#">0.700</a> J/cm <sup>2</sup> <a href="#">@Temperature 23.0 °C</a>	<a href="#">3.33</a> ft-lb/in <sup>2</sup> <a href="#">@Temperature 73.4 °F</a>	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Taber Abrasion, mg/1000 Cycles	35 <a href="#">@Load 1.00 kg</a>	35 <a href="#">@Load 2.20 lb</a>	CS-17; SABIC Method
Electrical Properties	Metric	English	Comments
Volume Resistivity	>= <a href="#">1.00e+15</a> ohm-cm	>= <a href="#">1.00e+15</a> ohm-cm	IEC 60093
Surface Resistance	>= <a href="#">1.00e+15</a> ohm	>= <a href="#">1.00e+15</a> ohm	ROA; IEC 60093
Dielectric Constant <input type="checkbox"/>	2.6 <a href="#">@Frequency 1e+6 Hz</a>	2.6 <a href="#">@Frequency 1e+6 Hz</a>	IEC 60250
	2.7 <a href="#">@Frequency 50.0 - 60.0 Hz</a>	2.7 <a href="#">@Frequency 50.0 - 60.0 Hz</a>	IEC 60250
Dielectric Strength <input type="checkbox"/>	<a href="#">18.0</a> kV/mm <a href="#">@Thickness 3.20 mm</a>	<a href="#">457</a> kV/in <a href="#">@Thickness 0.126 in</a>	in oil; IEC 60243-1
	<a href="#">26.0</a> kV/mm <a href="#">@Thickness 1.60 mm</a>	<a href="#">660</a> kV/in <a href="#">@Thickness 0.0630 in</a>	in oil; IEC 60243-1
	<a href="#">35.0</a> kV/mm <a href="#">@Thickness 0.800 mm</a>	<a href="#">889</a> kV/in <a href="#">@Thickness 0.0315 in</a>	in oil; IEC 60243-1
Dissipation Factor <input type="checkbox"/>	0.0040 <a href="#">@Frequency 50.0 - 60.0 Hz</a>	0.0040 <a href="#">@Frequency 50.0 - 60.0 Hz</a>	IEC 60250
	0.0080	0.0080	IEC 60250

Comparative Tracking Index	@Frequency 1e+6 Hz <a href="#">450</a> V	@Frequency 1e+6 Hz <a href="#">450</a> V	IEC 60112
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Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	<a href="#">40.0</a> $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	<a href="#">22.2</a> $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $^{\circ}\text{C}$	@Temperature 73.4 - 140 $^{\circ}\text{F}$	
Thermal Conductivity	<a href="#">0.200</a> W/m-K	<a href="#">1.39</a> BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	ISO 8302
Hot Ball Pressure Test	<= <a href="#">100</a> $^{\circ}\text{C}$	<= <a href="#">212</a> $^{\circ}\text{F}$	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	<a href="#">101</a> $^{\circ}\text{C}$	<a href="#">214</a> $^{\circ}\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	<a href="#">96.0</a> $^{\circ}\text{C}$	<a href="#">205</a> $^{\circ}\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	<a href="#">101</a> $^{\circ}\text{C}$	<a href="#">214</a> $^{\circ}\text{F}$	Rate B/50; ISO 306
	<a href="#">103</a> $^{\circ}\text{C}$	<a href="#">217</a> $^{\circ}\text{F}$	Rate B/120; ISO 306
UL RTI, Electrical	<a href="#">60.0</a> $^{\circ}\text{C}$	<a href="#">140</a> $^{\circ}\text{F}$	UL 746B
UL RTI, Mechanical with Impact	<a href="#">60.0</a> $^{\circ}\text{C}$	<a href="#">140</a> $^{\circ}\text{F}$	UL 746B
UL RTI, Mechanical without Impact	<a href="#">60.0</a> $^{\circ}\text{C}$	<a href="#">140</a> $^{\circ}\text{F}$	UL 746B
Flammability, UL94 	HB	HB	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	2nd value; UL 94
	@Thickness 2.50 mm	@Thickness 0.0984 in	
Glow Wire Flammability Index	<a href="#">650</a> $^{\circ}\text{C}$	<a href="#">1200</a> $^{\circ}\text{F}$	IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

#### Descriptive Properties

Ball Pressure Test, 75 $^{\circ}\text{C}$ +/- 2 $^{\circ}\text{C}$	PASSES	IEC 60695-10-2
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