

## SABIC Innovative Plastics Cyclac® X37 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

### Material Notes:

ABS, injection moulding, high heat grade. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cyclac-X37-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-X37-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	1.0 g/10 min @Load 3.80 kg, Temperature 230 °C	1.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D 785
Tensile Strength, Yield	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.41 GPa	350 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.41 GPa	350 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.530 J/cm @Temperature -40.0 °C	0.993 ft-lb/in @Temperature -40.0 °F	ASTM D 256
	2.13 J/cm @Temperature 23.0 °C	3.99 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Gardner Impact	13.0 J @Temperature 23.0 °C	9.59 ft-lb @Temperature 73.4 °F	ASTM D 3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 µm/m-°C @Temperature -40.0 - 40.0 °C	44.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	103 °C	217 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>@ Thickness 6.40 mm</small>	English <small>@ Thickness 0.252 in</small>	Comments <small>unannealed; ASTM D 648</small>
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	HB <small>@Thickness 1.60 mm</small>	HB <small>@Thickness 0.0630 in</small>	UL 94

Optical Properties	Metric	English	Comments
Gloss	94 %	94 %	untextured, 60 degrees; ASTM D 523

Electrical Properties	Metric	English	Comments
Dielectric Strength	36.8 kV/mm <small>@Thickness 1.60 mm</small>	935 kV/in <small>@Thickness 0.0630 in</small>	in air; ASTM D 149
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten, PLC code 6; ASTM D 495
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC code 3; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	PLC code 1; UL 746A

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China