

## SABIC Innovative Plastics Cycloy® EHA PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

PC+ABS. Electroplateable.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cycloy-EHA-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-EHA-PCABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	78.0 MPa	11300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.68 J/cm	6.89 ft-lb/in	ASTM D256
	0.640 J/cm @Temperature -30.0 °C	1.20 ft-lb/in @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Specific Heat Capacity	2.00 J/g-°C	0.478 BTU/lb-°F	ASTM C351
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft²-°F	ASTM E 1530
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
	HB	HB	

Flammability, UL 94 Thermal Properties	Metric @ Thickness 1.47 mm	English @ Thickness 0.0579 in	UL 94 Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

## Contact Songhan Plastic Technology Co.,Ltd.

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