

## SABIC Innovative Plastics Cyclac® FR15U ABS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

CYCOLAC FR15U is a flame retardant ABS with good processability and good indoor UV properties.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cyclac-FR15U-ABS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-FR15U-ABS-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Flow	7.0 g/10 min @Load 5.00 kg, Temperature 220 °C	7.0 g/10 min @Load 11.0 lb, Temperature 428 °F	ISO 1133
Melt Index of Compound	40 g/10 min @Load 10.0 kg, Temperature 220 °C	40 g/10 min @Load 22.0 lb, Temperature 428 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.0 MPa	5950 psi	50 mm/min; ISO 527
Elongation at Break	22 %	22 %	50 mm/min; ISO 527
Tensile Modulus	2.21 GPa	321 ksi	1 mm/min; ISO 527
Flexural Yield Strength	63.0 MPa	9140 psi	2 mm/min; ISO 178
Flexural Modulus	2.26 GPa	328 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft <sup>2</sup> -°F	ISO 8302
Vicat Softening Point	92.0 °C	198 °F	Rate B/50; ISO 306
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 Thermal Properties	60.0 °C Metric	140 °F English	UL 746B Comments
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	UL 94
	@Thickness 2.80 mm	@Thickness 0.110 in	
Oxygen Index	26 %	26 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Dielectric Strength	20.0 kV/mm	508 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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