

## SABIC Innovative Plastics Cyclac® MG34LG ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Automotive: Low gloss ABS for unpainted interior applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cyclac-MG34LG-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-MG34LG-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 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	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 3.80 kg, Temperature 200 °C	6.0 g/10 min @Load 8.38 lb, Temperature 392 °F	ASTM D1238
Melt Index of Compound	24 g/10 min @Load 10.0 kg, Temperature 220 °C	24 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 at Break	31.0 MPa	4500 psi	5 mm/min; ISO 527
	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	5 mm/min; ISO 527
	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 5 mm/min; ASTM D638
	25.7 %	25.7 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	2.13 GPa Metric	309 ksi English	5 mm/min; ASTM D638 Comments
	2.26 GPa	328 ksi	1 mm/min; ISO 527
Flexural Yield Strength	62.0 MPa	8990 psi	2 mm/min; ISO 178
	68.0 MPa	9860 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.06 GPa	299 ksi	2 mm/min; ISO 178
	2.20 GPa	319 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.45 J/cm	4.59 ft-lb/in	ASTM D256
	0.420 J/cm	0.787 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	35.0 J	25.8 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.6 µm/m-°C	52.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	93.6 µm/m-°C	52.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	93.6 µm/m-°C	52.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	93.6 µm/m-°C	52.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 °C	180 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Vicat Softening Point	97.0 °C	207 °F	Rate B/50; ISO 306
	98.0 °C	208 °F	Rate B/50; ASTM D1525
	101 °C	214 °F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 75°C +/- 2°C	PASSES	IEC 60695-10-2

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