

SABIC Innovative Plastics Cycloy® CM8622 PC+ABS (Europe-Africa-Middle East)

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

Material Notes:

CYCOLOY* CM8622 is a high heat PC/ABS blend offering high modulus, low CTE and good

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CM8622-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on Tensile Bar; SABIC Method
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	
Melt Index of Compound	15 g/10 min	15 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	5 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Elongation at Break	50 %	50 %	5 mm/min; ISO 527
	55 %	55 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Elongation at Yield	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	3.60 GPa	522 ksi	5 mm/min; ASTM D638
	3.60 GPa	522 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	2 mm/min; ISO 178
	3.65 GPa	529 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	16.5 J/cm	30.9 ft-lb/in	ASTM D4812
	14.5 J/cm	27.2 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	140 kJ/m ²	66.6 ft-lb/in ²	80*10*4; ISO 180/1U
	135 kJ/m ²	64.2 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	10.5 J/cm ²	50.0 ft-lb/in ²	ISO 179/2C
	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/2C
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	50.0 J	36.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Impact Test Mechanical Properties	85.0 J Metric	62.7 ft-lb English	Multiaxial Impact; ISO 6603 Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	51.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	28.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	
	56.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature -30.0 - 80.0 $^{\circ}\text{C}$	@Temperature -22.0 - 176 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	64.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	35.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	
	70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature -30.0 - 80.0 $^{\circ}\text{C}$	@Temperature -22.0 - 176 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	129 $^{\circ}\text{C}$	264 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	129 $^{\circ}\text{C}$	264 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	112 $^{\circ}\text{C}$	234 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	112 $^{\circ}\text{C}$	234 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	133 $^{\circ}\text{C}$	271 $^{\circ}\text{F}$	Rate B/50; ISO 306
	134 $^{\circ}\text{C}$	273 $^{\circ}\text{F}$	Rate B/120; ISO 306
	144 $^{\circ}\text{C}$	291 $^{\circ}\text{F}$	Rate A/50; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 125 $^{\circ}\text{C}$ +/- 2 $^{\circ}\text{C}$	PASSES	IEC 60695-10-2

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