

SABIC Innovative Plastics Cycloy® CS9610 PC+ABS (Asia Pacific)

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

Material Notes:

Cycloy* CS9610 is a FR PC/ABS blend using non-brominated and non-chlorinated flame retardant systems, offering optimum mechanical & impact balance and excellent flammability and low smoke behavior. This grade potentially can be considered for a wide variety of applications in areas such as transportation, consumer electronics and electrical equipments.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CS9610-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 260 °C	15 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 260 °C	12 g/10 min @Load 11.0 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	50 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	>= 45 %	>= 45 %	50 mm/min; ISO 527
	55 %	55 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.8 %	4.8 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
	2.60 GPa	377 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	98.0 MPa Metric	14200 psi English	2 mm/min; ISO 178 Comments
Flexural Modulus	2.44 GPa	354 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*3; ISO 180/1A
	15.0 kJ/m ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
Charpy Impact, Notched	4.50 J/cm ²	21.4 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.50 J/cm ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	72.0 J @Temperature 23.0 °C	53.1 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C @Thickness 3.20 mm	244 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	105 °C @Thickness 3.20 mm	221 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	124 °C	255 °F	Rate B/50; ISO 306
	127 °C	261 °F	Rate B/120; ISO 306
Flammability, UL94	V-0 @Thickness 2.00 mm	V-0 @Thickness 0.0787 in	UL 94
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	UL 94

Descriptive Properties	Value	Comments
NBS Smoke Density, Flaming, Dmax	225	ASTM E 662
NBS Smoke Density, Flaming, Ds 1.5 min	40	ASTM E 662
NBS Smoke Density, Flaming, Ds 4 min	150	ASTM E 662

Descriptive Properties	Value	Comments
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