

SABIC Innovative Plastics Cycloy® EXCY0025 PC+ABS

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

Material Notes:

Recycle Material with PC+ABS+EXL recycle for good low temperature impact performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-EXCY0025-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	44.0 MPa	6380 psi	50 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	90 %	90 %	Type I, 50 mm/min; ASTM D638
	100 %	100 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.17 GPa	315 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178
	72.0 MPa	10400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
	2.02 GPa	293 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.90 J/cm	12.9 ft-lb/in	ASTM D256
	5.30 J/cm	9.93 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1A
	41.0 kJ/m ²	19.5 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	80*10*4-ISO 180/1A Comments
Charpy Impact, Notched	5.50 J/cm ²	26.2 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	4.40 J/cm ² @Temperature -30.0 °C	20.9 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	45.0 J @Temperature 23.0 °C	33.2 ft-lb @Temperature 73.4 °F	ASTM D3763
	45.0 J @Temperature -30.0 °C	33.2 ft-lb @Temperature -22.0 °F	ASTM D3763
	47.0 J @Temperature -40.0 °C	34.7 ft-lb @Temperature -40.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	119 °C @Thickness 3.20 mm	246 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	98.0 °C @Thickness 3.20 mm	208 °F @Thickness 0.126 in	unannealed; ASTM D648

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