

Covestro Makrolon® XT5010 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Main characteristics:• High toughness• Good heat resistance• Glass-like transparency, optical quality• High dimensional accuracy and stabilityGrade characteristics:• Easy processing• Low viscosity, easy releaseAs of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Makrolon-XT5010-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in³	ISO 1183-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	75.0 MPa	10900 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 50 %	>= 50 %	Nominal, 50 mm/min; ISO 527-1,-2
	90 %	90 %	50 mm/min; b.o. ISO 527-1,-2
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	8.00 kJ/m² @Thickness 3.00 mm, Temperature 23.0 °C	3.81 ft-lb/in² @Thickness 0.118 in, Temperature 73.4 °F	complete break; b.o. ISO 180-A
Charpy Impact Unnotched	22.0 J/cm² @Temperature 23.0 °C	105 ft-lb/in² @Temperature 73.4 °F	complete break; ISO 179-1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179-1eU

Thermal Properties	Metric	English	Comments
Vicat Softening Point	112 °C @Load 5.10 kg	234 °F @Load 11.2 lb	50°C/h; ISO 306
	114 °C @Load 5.10 kg	237 °F @Load 11.2 lb	120°C/h; ISO 306
UL RTI, Electrical	80.0 °C	176 °F	UL 746B

III RTI Mechanical with Impact Thermal Properties	80.0 °C Metric	176 °F English	III 746B Comments
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746B
Flammability, UL94	V-2	V-2	
Glow Wire Test	800 °C	1470 °F	GWIT; IEC 60695-2-13
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	825 °C	1520 °F	GWIT; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	850 °C	1560 °F	GWIT; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

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