

Covestro Makrolon® FR 7087 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded , Polycarbonate, Unreinforced, Flame Retardant , Polycarbonate, UV Stabilized

Material Notes:

Main characteristics:• High toughness• Good heat resistance• Glass-like transparency, optical quality• High dimensional accuracy and stability
Grade characteristics:• Flame retardant• Medium viscosity, easy release• UV stabilized
As 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-FR-7087-Polycarbonate.php

Physical Properties	Metric	English	Comments
Melt Flow	12 g/10 min	12 g/10 min	ISO 1133
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 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	100 %	100 %	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	2.50 GPa	363 ksi	1 mm/min; ISO 527-1,-2
Charpy Impact Unnotched	NB	NB	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	244 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	ISO 75-1,-2
UL RTI, Electrical	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746B
Flammability, UL94	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	5VA	5VA	UL-94 5V
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	930 °C	1710 °F	GWIT; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	GWIT; IEC 60695-2-13
	@Thickness 2.20 mm	@Thickness 0.0866 in	
	960 °C	1760 °F	GWIT; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 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 2.20 mm	@Thickness 0.0866 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Optical Properties	Metric	English	Comments
Haze	0.90 %	0.90 %	ISO 14782
	@Thickness 3.00 mm	@Thickness 0.118 in	
Transmission, Visible	88 %	88 %	ISO 13468-2
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °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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