

Makrolon® FR7087

Polycarbonate

Covestro - Polycarbonates

Message:

MVR (300 °C/1.2 kg) 12 cm³/10 min; flame retardant; UL 94V-0/2.2 mm and 5VA/3.0 mm; medium viscosity; UV stabilized; easy release; injection molding
- melt temperature 280 - 320 °C; available in transparent and translucent colors; electrical/electronic

General Information			
UL YellowCard	E41613-100483196		
Additive	Flame Retardant		
	UV Stabilizer		
Features	Flame Retardant		
	Good Mold Release		
	Medium Viscosity		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Colors Available		
	Translucent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	12.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	75.0	MPa	
Break, 23°C	75.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	5.0	%	
Break, 23°C	100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength ¹			ISO 7391
-30°C, Complete Break	8.0	kJ/m ²	
23°C, Complete Break	8.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	118	°C	ISO 75-2/B
1.8 MPa, Unannealed	106	°C	ISO 75-2/A
Vicat Softening Temperature			
--	123	°C	ISO 306/B50
--	124	°C	ISO 306/B120
RTI Elec (1.50 mm)	125	°C	UL 746
RTI Imp (1.50 mm)	80.0	°C	UL 746
RTI Str (1.50 mm)	85.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-2		
2.20 mm	V-0		
3.00 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	
2.20 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	930	°C	
2.20 mm	930	°C	
3.00 mm	960	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	88.0	%	ISO 13468-2
Haze (3000 μm)	0.90	%	ISO 14782
Additional Information	Nominal Value		
ISO Shortname	ISO 7391-PC,MFLR,(,)-18-9		
NOTE			
1.	Based on ISO 180-A, 3 mm		

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