



Makrolon® M402 LF

PC

Covestro Deutschland AG

- polycarbonate
- MVR (300 °C/1.2 kg) 19 cm³/10 min
- low viscosity
- improved friction characteristics
- biocompatible according to many ISO 10993-1 test requirements
- suitable for medical devices

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2150	MPa	ISO 527
Notched Impact Strength (Izod), 23 °C	60	kJ/m²	ISO 180/1A

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1200	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 320	°C	-
Mold temperature	70 - 110	°C	-
Zone 1	250 - 270	°C	-
Zone 2	270 - 290	°C	-
Zone 3	285 - 305	°C	-
Nozzle temperature	270 - 305	°C	-
Back pressure	10 - 20	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Opaque

Features

Tribologic Grade

Certifications

Medical, Biocompatibility ISO 10993

Applications

Medical