



Makrolon® M430 GF

PC-GF30

Covestro Deutschland AG

- polycarbonate
- MVR (300 °C/1.2 kg) 7.0 cm³/10 min
- low viscosity
- 30 % glass fiber reinforced
- 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	7	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8000	MPa	ISO 527
Stress at Break	128	MPa	ISO 527
Strain at Break	2.8	%	ISO 527

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	140	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	144	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	40	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.26	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1420	kg/m³	ISO 1183

Characteristics

Certifications

Biocompatibility ISO 10993

Applications

Medical