



## Makrolon® Rx2430 RE

PC

Covestro Deutschland AG

- MVR (300 °C/1.2 kg) 19 cm<sup>3</sup>/10 min
- medical devices
- suitable for sterilization with high-energy radiation
- biocompatible according to many ISO 10993-1 test requirements
- low viscosity
- transparent parts for medical devices

Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	19	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	67	MPa	ISO 527
Yield strain	6.1	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Impact Strength (Charpy), +23 °C	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Puncture - maximum force, +23 °C	5300	N	ISO 6603-2
Puncture - maximum force, -30 °C	6200	N	ISO 6603-2
Puncture energy, +23 °C	60	J	ISO 6603-2
Puncture energy, -30 °C	70	J	ISO 6603-2

Thermal Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	122	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	134	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N	141	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	65	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	65	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	V-2	class	UL 94
Thickness tested	0.4	mm	-

Electrical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2

Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Water Absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1200	kg/m <sup>3</sup>	ISO 1183

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

## Characteristics

### Special Characteristics

Transparent, Sterilizable, Gamma irradiation sterilization

### Applications

Medical

### Certifications

Contains renewable resources, Biocompatibility ISO 10993, ISCC Plus