

**Makrolon® FR6020 RE**  
 PC-I FR(40)

Covestro Deutschland AG

- polycarbonate
- medium viscosity
- easy release
- UV stabilized
- flame retardant
- chlorine- and bromine-free flame retardancy
- non-reinforced
- good hydrolysis resistance
- impact modified
- Information technology
- electrical/electronic

Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	9	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2380	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	6	%	ISO 527
Flexural Modulus (23°C)	2430	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	67	kJ/m <sup>2</sup>	ISO 180/1A
Notched Impact Strength (Izod)	26	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-

Thermal Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	114	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	127	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	134	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	49	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	58	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0	class	UL 94
Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	2.0	mm	-
Burning Behav. 5V at Thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-

Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1200	kg/m <sup>3</sup>	ISO 1183

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-
Mold temperature	80	°C	-

**Characteristics**
**Processing**

Injection Molding

**Chemical Resistance**

Hydrolysis

**Additives**

Release agent

**Certifications**

Contains renewable resources, ISCC Plus

**Special Characteristics**

Flame retardant, Halogen-free, Impact modified, UV stabilized

**Applications**

Electrical and Electronical

**Disclaimer**

**Liability Exclusion**

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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