Makrolon® FP2987

PC — Covestro Deutschland AG

Product Texts

- high viscosity
- MVR (300 °C/1.2 kg) 9.0 cm³/10 min

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**9**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2350**	MPa	ISO 527
[C] Yield stress	**66**	MPa	ISO 527
[C] Yield strain	**6**	%	ISO 527
Izod notched impact strength, +23°C	**75**	kJ/m²	ISO 180/1A
Izod notched impact strength	**14**	kJ/m²	ISO 180/1A
Temperature	**-20**	°C	-
[C] Puncture - maximum force, +23°C	**5700**	N	ISO 6603-2
[C] Puncture - maximum force, -30°C	**6500**	N	ISO 6603-2
[C] Puncture energy, +23°C	**62**	J	ISO 6603-2
[C] Puncture energy, -30°C	**67**	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**122**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**142**	°C	ISO 306

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**300**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**2 - 3**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**280 - 320**	°C	-
Mold temperature	**80 - 120**	°C	-
Zone 1	**250 - 260**	°C	-
Zone 2	**270 - 280**	°C	-
Zone 3	**280 - 290**	°C	-
Nozzle temperature	**290 - 300**	°C	-
Back pressure	**5 - 15**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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