

CAMPUS® Datasheet

Makrolon® 2858 - PC
Covestro Deutschland AG



Product Texts

- MVR (300 °C/1.2 kg) 9.0 cm³/10 min
- medical devices
- suitable for ETO and steam sterilization at 121 °C
- biocompatible according to many ISO 10993-1 test requirements
- medium viscosity
- easy release
- available in transparent and opaque colors

Rheological properties	Value	Unit	Test Standard
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	300	°C	ISO 1133
Load	1.2	kg	ISO 1133
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

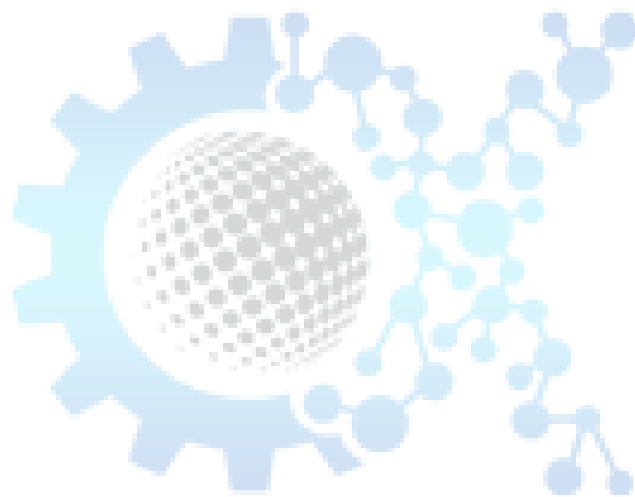
Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	2400	MPa	ISO 527-1/-2
Yield stress	66	MPa	ISO 527-1/-2
Yield strain	6.1	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Tensile creep modulus, 1h	2200	MPa	ISO 899-1
Tensile creep modulus, 1000h	1900	MPa	ISO 899-1
Charpy impact strength, +23 °C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	N	kJ/m ²	ISO 179/1eU
Puncture - maximum force, +23 °C	5400	N	ISO 6603-2
Puncture - maximum force, -30 °C	6300	N	ISO 6603-2
Puncture energy, +23 °C	60	J	ISO 6603-2
Puncture energy, -30 °C	65	J	ISO 6603-2

Thermal properties	Value	Unit	Test Standard
Glass transition temperature, 10 °C/min	145	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N	145	°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
Yellow Card available	Yes	-	-
Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested (h)	0.8	mm	IEC 60695-11-10
Oxygen index	28	%	ISO 4589-1/-2

Electrical properties	Value	Unit	Test Standard
Relative permittivity, 100Hz	3.1	-	IEC 60250
Relative permittivity, 1MHz	3	-	IEC 60250
Dissipation factor, 100Hz	5	E-4	IEC 60250
Dissipation factor, 1MHz	90	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093

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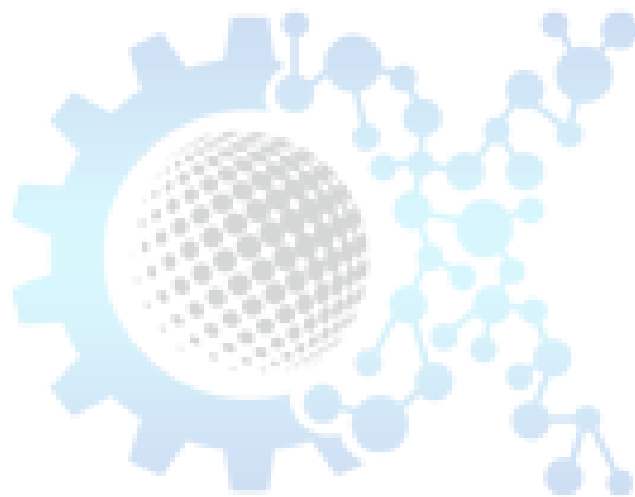
Electric strength	34	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
Other properties	Value	Unit	Test Standard
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Material specific properties	Value	Unit	Test Standard
Luminous transmittance	89	%	ISO 13468-1, -2
Rheological calculation properties	Value	Unit	Test Standard
Density of melt	1020	kg/m ³	-
Thermal conductivity of melt	0.214	W/(m K)	-
Spec. heat capacity melt	2100	J/(kg K)	-
Eff. thermal diffusivity	1E-7	m ² /s	-
Ejection temperature	130	°C	-
Test specimen production	Value	Unit	Test Standard
Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724
Injection Molding, injection velocity	200	mm/s	ISO 294



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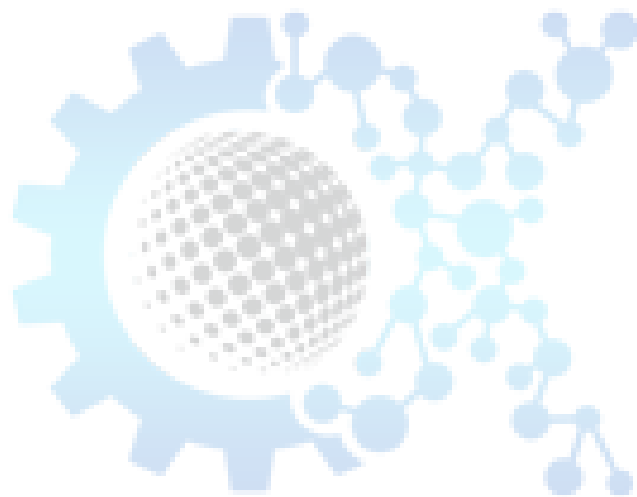
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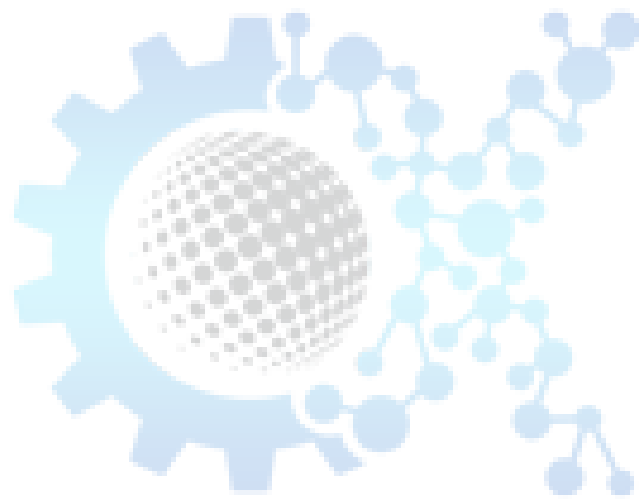
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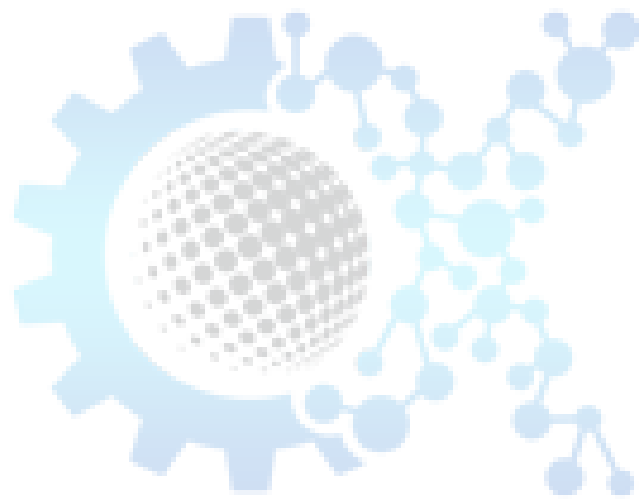
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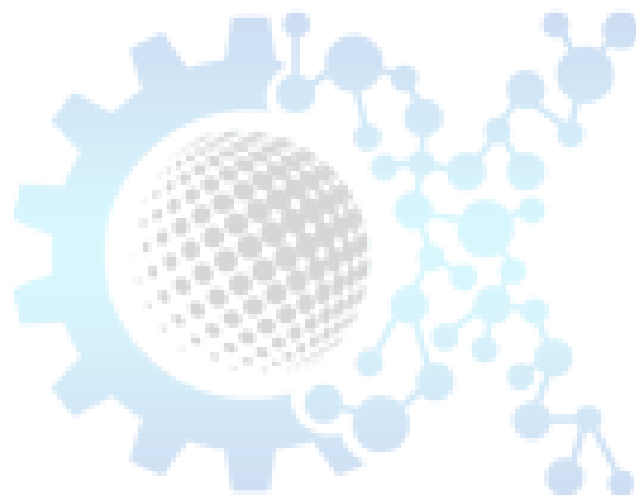
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