

## Datasheet of Polycarbonate

### Product Texts

Low Viscosity, UV Stabilized, Molding Release

ISO 1043 PC

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

Mechanical properties	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Tensile Modulus	2300	MPa	ISO 527-1/-2
Yield stress	60	MPa	ISO 527-1/-2
Yield strain	6	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2

Thermal properties	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	130	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	148	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	65	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	UL	-	-
Oxygen index	26	%	ISO 4589-1/-2

Electrical properties	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Relative permittivity (100Hz)	3	-	IEC 60250
Relative permittivity (1MHz)	2.9	-	IEC 60250
Dissipation factor (100Hz)	6.6	E-4	IEC 60250
Dissipation factor (1MHz)	92	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index	225	-	IEC 60112

Other properties	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Water absorption	0.35	%	Sim. to ISO 62
Density	1200	kg/m <sup>3</sup>	ISO 1183

Material specific properties	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Viscosity number	55	cm <sup>3</sup> /g	ISO 307, 1157, 1628

Rheological calculation properties	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Density of melt	1010	kg/m <sup>3</sup>	-

Thermal conductivity of melt	0.24	W/(m K)	-
Spec. heat capacity melt	1710	J/(kg K)	-
Eff. thermal diffusivity	1.40E-7	m <sup>2</sup> /s	-
Ejection temperature	131	°C	-

Test specimen production	Value	Unit	Test Standard
<b>CAMPUS/ISO Data</b>			
Injection Molding, melt temperature	300	°C	ISO 294
mold temperature	90	°C	ISO 10724

## Characteristics

<b>Processing</b>	<b>Special Characteristics</b>
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Injection Molding, Blow Molding

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, Transparent

<b>Delivery form</b>	<b>Regional Availability</b>
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Pellets

Europe

<b>Additives</b>	
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Release agent

## Other text information

### Injection molding