polycase

Datasheet of Polycarbonate used for SG - Series

Product Texts
Low Viscosity, UV Stabilized, Molding Release
ISO 1043 PC

Rheological properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Melt volume-flow rate	**10**	cm³/10min	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
CAMPUS/ISO Data			
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
CAMPUS/ISO Data			
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
CAMPUS/ISO Data			
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
CAMPUS/ISO Data			
Water absorption	**0.35**	%	Sim. to ISO 62
Density	**1200**	kg/m³	ISO 1183

Material specific properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Viscosity number	**55**	cm³/g	ISO 307, 1157, 1628

Rheological calculation properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Density of melt	**1010**	kg/m³	-

Thermal conductivity of melt	**0.24**	W/(m K)	-
Spec. heat capacity melt	**1710**	J/(kg K)	-
Eff. thermal diffusivity	**1.40E-7**	m²/s	-
Ejection temperature	**131**	°C	-

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

Characteristics

Processing

Injection Molding, Blow Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

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

Regional Availability

Europe

Other text information

Injection molding