

Product Texts

Siloxane-PC copolymer

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Other Standards^[5]			
Molding shrinkage, parallel	0.7	%	Producer Method
Molding shrinkage, normal	0.7	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Yield stress	60	MPa	ISO 527
Nominal strain at break	100	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy notched impact strength, +23°C	70	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	30	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, +23°C, 3mm	70	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	50	kJ/m ²	ISO 179/1eA
ASTM Data			
Izod Impact notched, 1/8 in	750	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	600	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	123	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-

Electrical properties

	Value	Unit	Test Standard
Other Standards^[5]			
Relative permittivity, 1MHz	2.9	-	IEC 60250
Dissipation factor, 1MHz	84	E-4	IEC 60250
Comparative tracking index	212	-	UL 746A

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Other properties

	Value	Unit	Test Standard
Density	1180	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	5 - 8	h	-
Melt temperature	270 - 310	°C	-
Mold temperature	80 - 120	°C	-

Characteristics

Processing

Injection Molding

Features

Copolymer

Delivery form

Black

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant