

Product Texts

PC-siloxane copolymer in special "Diamond Sparkle" colors. Medium flow. Improved toughness compared to medium flow standard PC in same color. Color package may affect performance.

UL Yellow Card Link [E121562-512743](https://www.ulprospector.com/usa/Products/121562-512743)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2250	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	5.4	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	11.3	%	ISO 527
Flexural modulus	2150	MPa	ISO 178
Charpy notched impact strength, +23°C	45	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	32	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	19	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2060	MPa	ASTM D 638
Tensile Strength at Yield	58	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Yield	5.7	%	ASTM D 638
Elongation at Break	52	%	ASTM D 638
Flexural Modulus	2230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	523	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	347	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	117	°C	ISO 75-1/-2
Vicat softening temperature, B	139	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	142	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-
ASTM Data			
DTUL @ 264 psi	121	°C	ASTM D 648
Vicat Temperature	139	°C	ASTM D 1525
Other properties			
Water absorption	0.13	%	Sim. to ISO 62
Humidity absorption	0.09	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183
Density	1180	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	270 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America