

Product Texts

6% GF reinforced opaque polycarbonate-siloxane copolymer with good impact strength, stiffness and hydrolytic stability.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	6	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	6.6	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3200	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	4.6	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	15.4	%	ISO 527
Flexural modulus	2830	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	15	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	30	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3300	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	19	%	ASTM D 638
Flexural Modulus	2850	MPa	ASTM D 790
Izod Impact notched, 1/8 in	260	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	166	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	134	°C	ISO 75-1/-2
Vicat softening temperature, B	146	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	148	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	137	°C	ASTM D 648
Vicat Temperature	146	°C	ASTM D 1525

Other properties

	Value	Unit	Test Standard
Water absorption	0.12	%	Sim. to ISO 62
Humidity absorption	0.46	%	Sim. to ISO 62
Density	1220	kg/m ³	ISO 1183
Density	1220	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	310 - 330	°C	-

LEXAN™ Copolymer EXL4016H - Americas

PC-GF6

Saudi Basic Industries Corporation (SABIC)

Mold temperature	80 - 115	°C	-
Zone 1	290 - 310	°C	-
Zone 2	300 - 320	°C	-
Zone 3	310 - 330	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Chemical Resistance

Hydrolytically Stable