

Product Texts

LEXAN ML7664 polycarbonate (PC) siloxane resin, is a product targeting (profile) extrusion applications requiring extreme low temperature ductility. LEXAN ML7664 resin is a non-FR product available in opaque colors only.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	2	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	2.7	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	59	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2100	MPa	ISO 178
Charpy notched impact strength, +23°C	77	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	64	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	54	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	56	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	86	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	847	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	710	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Vicat softening temperature, B	143	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	145	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	144	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.35	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183
Density	1190	kg/m ³	ASTM D 792

Characteristics**Processing**

Profile Extrusion

Regional Availability

Asia Pacific