

Product Texts

ELCRES EXL4312 is based on Polycarbonate (PC) siloxane copolymer resin containing 20% glass fiber, medium flow, impact modified, injection moldable grade. EXL4312 has good surface energy and high gloss and is good candidate for a broad range of applications that require a combination of stiffness and ductility.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5400	MPa	ISO 527
Stress at break	90	MPa	ISO 527
Strain at break	3.2	%	ISO 527
ASTM Data			
Tensile Modulus	5500	MPa	ASTM D 638
Tensile Strength at Break	90	MPa	ASTM D 638
Elongation at Break	3.5	%	ASTM D 638
Flexural Modulus	5400	MPa	ASTM D 790
Flexural Strength	140	MPa	ASTM D 790
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	100	J/m	ASTM D 256
Temperature	-20	°C	-
Izod Impact unnotched, 1/8 in	780	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	138	°C	ASTM D 648

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	3 - 6	h	-
Melt temperature	285 - 310	°C	-
Mold temperature	110 - 140	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Nozzle temperature	285 - 305	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Features

Ductile, High Gloss, Copolymer

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America