

**LEXAN™ FR Resin LF1000 Asia**

(PC+PTFE)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LEXAN LF1000 compound is based on Polycarbonate (PC) resin containing 10% PTFE. Added features of this grade include: Wear Resistant, Flame Retardant and Easy Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Flexural Modulus	2150	MPa	ASTM D 790
Flexural Strength	84	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Taber Abrasion Resistance	7	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	184	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
DTUL @ 66 psi	136	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1260	kg/m <sup>3</sup>	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	290 - 315	°C	-
Mold temperature	70 - 105	°C	-
Zone 1	270 - 280	°C	-
Zone 2	270 - 280	°C	-
Zone 3	275 - 305	°C	-
Nozzle temperature	275 - 305	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Applications**

Building Construction, IT / Business Machine, Electrical and Electronical, Sports Equipment

**Regional Availability**

Asia Pacific