

Product Texts

20% Glass fiber filled, super high flow (highest flow) polyetherimide(PEI) (TG 217degC) with internal mold release, ECO conforming, UL94 V0 listing.

UL Yellow Card Link [E207780-104394172](https://www.ulprospector.com/usa/Products/2022/ULTEM-SF2270-PEI-GF20)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	17	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	2.16	kg	-
Thermal conductivity of melt	0.28	W/(m K)	-
Spec. heat capacity of melt	1870	J/(kg K)	-
Ejection temperature	201	°C	-
ASTM Data			
Melt Flow Index, MFI	22	g/10min	ASTM D 1238
Temperature	360	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9100	MPa	ISO 527
Stress at break	131	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	7100	MPa	ISO 178
Charpy impact strength, +23°C	32.9	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.9	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	28.8	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7.7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	9247	MPa	ASTM D 638
Tensile Strength at Break	145	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	8000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	67	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	323	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	202	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	208	°C	ISO 75-1/-2
Vicat softening temperature, B	210	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	212	°C	ISO 306
Coeff. of linear therm. expansion, parallel	15.1	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50.1	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
ASTM Data			
DTUL @ 66 psi	207	°C	ASTM D 648
DTUL @ 264 psi	202	°C	ASTM D 648
Vicat Temperature	211	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1440	kg/m ³	ISO 1183
Density	1440	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-

ULTEM™ Resin SF2270

PEI-GF20

Saudi Basic Industries Corporation (SABIC)

Processing humidity	≤0.02	%	-
Melt temperature	350 - 400	°C	-
Mold temperature	135 - 165	°C	-
Zone 1	330 - 400	°C	-
Zone 2	340 - 400	°C	-
Zone 3	345 - 400	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific