

Product Texts

30% Milled glass filled, high flow Polyetherimide (Tg 217C) with internal mold release and enhanced electroplatability. ECO Conforming, UL94 V0 listing.

UL Yellow Card Link [E121562-221101](https://www.ulprospector.com/usa/Products/2312EPR)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	13.7	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5300	MPa	ISO 527
Yield stress	80	MPa	ISO 527
Yield strain	2	%	ISO 527
Stress at break	80	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	5500	MPa	ISO 178
Charpy impact strength, +23°C	25	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	25	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	25	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	25	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6480	MPa	ASTM D 638
Tensile Strength at Yield	94	MPa	ASTM D 638
Tensile Strength at Break	94	MPa	ASTM D 638
Elongation at Yield	2	%	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	5580	MPa	ASTM D 790
Izod Impact notched, 1/8 in	39	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	330	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	192	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	204	°C	ISO 75-1/-2
Vicat softening temperature, B	211	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	213	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
Thermal Conductivity	0.32	W/(m K)	DIN 52616
ASTM Data			
DTUL @ 66 psi	204	°C	ASTM D 648
DTUL @ 264 psi	199	°C	ASTM D 648
Vicat Temperature	216	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.9	%	Sim. to ISO 62
Humidity absorption	0.5	%	Sim. to ISO 62

ULTEM™ Resin 2312EPR - Americas

PEI-GF30

Saudi Basic Industries Corporation (SABIC)

Density	1480	kg/m ³	ISO 1183
Density	1480	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	-
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