

Product Texts

45% Glass fiber and mineral filled, enhanced flow Polyetherimide (Tg 217C) with enhanced dimensional stability. ECO Conforming, UL94 V0 and 5VA listing in recognized colors.

UL Yellow Card Link [E121562-221107](https://www.ul.com/yellow-card-link/E121562-221107)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12500	MPa	ISO 527
Stress at break	100	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Flexural modulus	12000	MPa	ISO 178
Charpy impact strength, +23°C	14	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	14	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4	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	14	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	13	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	4	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	205	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	205	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.6	-	IEC 62631-2-1
Dissipation factor, 1MHz	150	E-4	IEC 62631-2-1
Volume resistivity	1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	125	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	1660	kg/m ³	ISO 1183

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	370 - 410	°C	-
Mold temperature	140 - 180	°C	-
Feed temperature	80 - 120	°C	-
Zone 1	350 - 400	°C	-
Zone 2	360 - 410	°C	-
Zone 3	370 - 420	°C	-

ULTEM™ Resin 3452 - Europe

PEI-(GF+MF)45

Saudi Basic Industries Corporation (SABIC)

Characteristics

Processing

Injection Molding

Regional Availability

Europe

Applications

Automotive