

ULTEM™ Resin 3452 - Americas

PEI-(GF+MF)45

Saudi Basic Industries Corporation (SABIC)

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.ulprospector.com/usa/Products/UL94-V0-5VA-Listed-Colors)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Thermal conductivity of melt	0.32	W/(m K)	-
Spec. heat capacity of melt	1800	J/(kg K)	-
Ejection temperature	206	°C	-
ASTM Data			
Melt Flow Index, MFI	4.6	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break	131	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Coeff. of linear therm. expansion, parallel	19.1	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	34.8	E-6/K	ISO 11359-1/-2
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	-

Other properties	Value	Unit	Test Standard
Density	1660	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

Applications

Automotive