

ULTEM™ Resin 4001 - Americas

(PEI+PTFE)

Saudi Basic Industries Corporation (SABIC)

Product Texts

PTFE filled, standard flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing.

UL Yellow Card Link [E121562-221110](https://www.ulprospector.com/usa/Products/Plastics/PEI/ULTEM-4001)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	9.5	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	3350	MPa	ASTM D 638
Tensile Strength at Yield	103	MPa	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Rockwell Hardness	M 110	-	ASTM D 785
Taber Abrasion Resistance	2	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	117	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	534	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.5	mm	-

Other properties	Value	Unit	Test Standard
Density	1330	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	135	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	350 - 370	°C	-
Mold temperature	135 - 165	°C	-
Zone 1	340 - 360	°C	-
Zone 2	345 - 365	°C	-
Zone 3	350 - 370	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America