

## SABIC Innovative Plastics ULTEM 2400 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

40% Glass fiber filled, standard flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing. WRAS certification in recognized colors.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-ULTEM-2400-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-2400-PEI.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D792
Water Absorption	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	ASTM D570
Moisture Absorption at Equilibrium	0.90 %	0.90 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.2 g/10 min @Load 6.60 kg, Temperature 337 Â°C	4.2 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D785
Tensile Strength at Break	179 MPa	26000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.72 GPa	1700 ksi	5 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	11.72 GPa	1700 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
	4.80 J/cm @Thickness 3.20 mm	8.99 ft-lb/in @Thickness 0.126 in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.4 Å/m/m-Å°C	8.00 Å/in/in-Å°F	ASTM E 631
	@Temperature -20.0 - 150 Å°C	@Temperature -4.00 - 302 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	212 Å°C	414 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	234 Å°C	453 Å°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Å°C	423 Å°F	
UL RTI, Electrical	170 Å°C	338 Å°F	UL 746B
UL RTI, Mechanical with Impact	170 Å°C	338 Å°F	UL 746B
UL RTI, Mechanical without Impact	170 Å°C	338 Å°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.250 mm	@Thickness 0.00984 in	
Oxygen Index	54 %	54 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+16 ohm-cm	1.50e+16 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	in oil; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	0.00 - 100 V	0.00 - 100 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
NBS Smoke Density, Flaming, Ds 4 min	1	ASTM E 662

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China