

## SABIC Innovative Plastics Ultem 2410F PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

40% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). UL94 V0 and 5VA listing. US FDA and European Food contact approved. Effective June, 2007 this grade will no longer be supported with biocompatibility information and should not be used for medical applications which require biocompatibility. Alternative grade HU2410. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Ultem-2410F-PEI-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-2410F-PEI-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.40 %	0.40 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.80 % @Temperature 23.0 <sup>o</sup> C	0.80 % @Temperature 73.4 <sup>o</sup> F	ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	on tensile bar; SABIC Method
Melt Flow	7.0 g/10 min @Load 5.00 kg, Temperature 360 <sup>o</sup> C	7.0 g/10 min @Load 11.0 lb, Temperature 680 <sup>o</sup> F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	170 MPa	24700 psi	ISO 2039-1
Tensile Strength at Break	180 MPa	26100 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.5 GPa	1670 ksi	1 mm/min; ISO 527
Flexural Strength	240 MPa	34800 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	35.0 kJ/m <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	16.7 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	80*10*4; ISO 180/1U
	35.0 kJ/m <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	16.7 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	80*10*4; ISO 180/1U

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Taber Abrasion, mg/1000 Cycles	20	20	CS-17; SABIC Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
CTE, linear, Transverse to Flow	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	217 Å°C	423 Å°F	Rate B/50; ISO 306
	225 Å°C	437 Å°F	Rate B/120; ISO 306
	230 Å°C	446 Å°F	Rate A/50; ISO 306
Glass Transition Temp, Tg	217 Å°C	423 Å°F	
Oxygen Index	48 %	48 %	LOI; ISO 4589
Glow Wire Test	960 Å°C	1760 Å°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	16.0 kV/mm	406 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
	26.0 kV/mm	660 kV/in	in oil; IEC 60243-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	35.0 kV/mm	889 kV/in	in oil; IEC 60243-1
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Dissipation Factor	0.0019	0.0019	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0025	0.0025	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Comparative Tracking Index	>= 100 V	>= 100 V	IEC 60112
	150 V	150 V	

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	PASSES	IEC 60695-10-2

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