

## SABIC Innovative Plastics Ultem 2210K PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

20% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming. 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-2210K-PEI-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-2210K-PEI-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D 792
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.55 %	0.55 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 % @Temperature 23.0 <sup>o</sup> C	1.0 % @Temperature 73.4 <sup>o</sup> F	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 6.60 kg, Temperature 337 <sup>o</sup> C	13 g/10 min @Load 14.6 lb, Temperature 639 <sup>o</sup> F	ASTM D 1238
	16 g/10 min @Load 5.00 kg, Temperature 360 <sup>o</sup> C	16 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
Tensile Strength at Break	139 MPa	20200 psi	Type I, 5 mm/min; ASTM D 638
	140 MPa	20300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	139 MPa	20200 psi	Type I, 5 mm/min; ASTM D 638
	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D 638
	5.0 %	5.0 %	5 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D 638
	5.0 %	5.0 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	6.80 GPa Metric	986 ksi English	1 mm/min; ISO 527 Comments
	6.89 GPa	999 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	210 MPa	30500 psi	2 mm/min; ISO 178
	227 MPa	32900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	6.50 GPa	943 ksi	2 mm/min; ISO 178
	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 Â°C	1.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	0.640 J/cm @Temperature -30.0 Â°C	1.20 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
Izod Impact, Unnotched	4.75 J/cm @Temperature 23.0 Â°C	8.90 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
	5.00 kJ/mÂ² @Temperature -30.0 Â°C	2.38 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.800 J/cmÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature -40.0 - 150 Â°C	13.9 Âµin/in-Â°F @Temperature -40.0 - 302 Â°F	ASTM E 831

Thermal Properties	25.0 Åµm/m-Å°C Metric	13.9 Åµin/in-Å°F English	Comments ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
CTE, linear, Transverse to Flow	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	209 Å°C	408 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
	211 Å°C	412 Å°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	212 Å°C	414 Å°F	Rate B/50; ISO 306
	218 Å°C	424 Å°F	Rate B/120; ISO 306
	225 Å°C	437 Å°F	Rate B/50; ASTM D 1525
Glass Transition Temp, Tg	217 Å°C	423 Å°F	

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