

**Product Texts**

Improved ductility, transparent, enhanced flow Polyetherimide blend (Tg 200C) with internal mold release and enhanced ductility. ECO Conforming, UL94 V0 listed.

UL Yellow Card Link [E121562-640471](https://www.ul.com/yellow-card/E121562-640471)

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	56	cm <sup>3</sup> /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	43	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	98	MPa	ISO 527
Yield strain	7	%	ISO 527
Stress at break	80	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	3100	MPa	ISO 178
Charpy notched impact strength, +23°C	2	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	2	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	2	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	3210	MPa	ASTM D 638
Tensile Strength at Yield	103	MPa	ASTM D 638
Tensile Strength at Break	85	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	80	%	ASTM D 638
Flexural Modulus	3320	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	35	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	192	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	195	°C	ISO 306
Burning behav. at thickness h	V-2	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	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	825	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	173	°C	ASTM D 648
Vicat Temperature	192	°C	ASTM D 1525

**Other properties**

	Value	Unit	Test Standard
Water absorption	0.36	%	Sim. to ISO 62
Humidity absorption	0.08	%	Sim. to ISO 62
Density	1280	kg/m <sup>3</sup>	ISO 1183
Density	1280	kg/m <sup>3</sup>	ASTM D 792

**ULTEM™ Resin DT1810EV - Europe**

PEI

Saudi Basic Industries Corporation (SABIC)

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>135</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>330 - 355</b>	°C	-
Mold temperature	<b>95 - 135</b>	°C	-
Zone 1	<b>310 - 330</b>	°C	-
Zone 2	<b>320 - 345</b>	°C	-
Zone 3	<b>330 - 355</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe

**Special Characteristics**

Transparent