

**Product Texts**

Standard flow Polyetherimide (Tg 217C). ECO Conforming. For medical devices and pharmaceutical applications. Healthcare management of change; biocompatible (ISO 10993 or USP Class VI); food contact compliant; Steam, Gamma, EtO, and E-beam sterilizable.

UL Yellow Card Link [E121562-100044765](https://www.ulprospector.com/121562-100044765)

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>16</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>5</b>	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>8.8</b>	g/10min	ASTM D 1238
Temperature	<b>337</b>	°C	-
Load	<b>6.6</b>	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>3200</b>	MPa	ISO 527
Yield stress	<b>105</b>	MPa	ISO 527
Yield strain	<b>6</b>	%	ISO 527
Stress at break	<b>85</b>	MPa	ISO 527
Strain at break	<b>50</b>	%	ISO 527
Flexural modulus	<b>3300</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	<b>6</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	<b>6</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>3720</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>110</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>85</b>	MPa	ASTM D 638
Elongation at Yield	<b>7</b>	%	ASTM D 638
Elongation at Break	<b>70</b>	%	ASTM D 638
Flexural Modulus	<b>3430</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>37</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>188</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>211</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>212</b>	°C	ISO 306
Burning behav. at thickness h	<b>V-2</b>	class	IEC 60695-11-10
Thickness tested	<b>0.4</b>	mm	-
Burning behav. 5V at thickness h	<b>5VA</b>	class	IEC 60695-11-20
Thickness tested	<b>3.0</b>	mm	-
<b>ASTM Data</b>			
Vicat Temperature	<b>211</b>	°C	ASTM D 1525
<b>Other properties</b>			
Water absorption	<b>1.25</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.7</b>	%	Sim. to ISO 62
Density	<b>1270</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1360</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>150</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-

**ULTEM™ Resin HU1100 - Europe**

PEI

Saudi Basic Industries Corporation (SABIC)

Processing humidity	≤0.02	%	-
Melt temperature	350 - 400	°C	-
Mold temperature	135 - 165	°C	-
Zone 1	330 - 400	°C	-
Zone 2	340 - 400	°C	-
Zone 3	345 - 400	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Medical

**Special Characteristics**

Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

**Regional Availability**

Europe

**Certifications**

Food contact, Food approval FDA 21 CFR, US Pharmacopeia Class VI Approved