

**Product Texts**

High Temperature, Transparent, Polyetherimide Blend with Improved Ductility and Enhanced Hydrostability. 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 [E121562-100737020](https://www.ulprospector.com/121562-100737020)

<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>14</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>360</b>	°C	-
Load	<b>5</b>	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>10</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>			
Yield stress	<b>97</b>	MPa	ISO 527
Yield strain	<b>7</b>	%	ISO 527
Stress at break	<b>80</b>	MPa	ISO 527
Strain at break	<b>50</b>	%	ISO 527
Flexural modulus	<b>2800</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>N</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength, -30°C, 4mm	<b>N</b>	kJ/m <sup>2</sup>	ISO 180/1U
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>2900</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>95</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>90</b>	MPa	ASTM D 638
Elongation at Yield	<b>7</b>	%	ASTM D 638
Elongation at Break	<b>85</b>	%	ASTM D 638
Flexural Modulus	<b>3000</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>70</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Vicat softening temperature, A	<b>219</b>	°C	ISO 306
Vicat softening temperature, B	<b>212</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>212</b>	°C	ISO 306
Burning behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8</b>	mm	-
<b>ASTM Data</b>			
Thermal Conductivity, solid state	<b>0.0274</b>	W/(m K)	ASTM C 177
<b>Other properties</b>			
<b>Value</b>			
Density	<b>1280</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1280</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>			
Pre-drying - Temperature	<b>150</b>	°C	-
Pre-drying - Time	<b>6 - 8</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>355 - 390</b>	°C	-
Mold temperature	<b>130 - 160</b>	°C	-
Zone 1	<b>330 - 390</b>	°C	-
Zone 2	<b>335 - 390</b>	°C	-

**ULTEM™ Resin HU1004 - Asia**

PEI

Saudi Basic Industries Corporation (SABIC)

Zone 3	<b>345 - 390</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

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

**Certifications**

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

**Applications**

Medical

**Regional Availability**

Asia Pacific