

**Product Texts**

Enhanced flow, Specialty filtered Polyetherimide (Tg 225C) with enhanced chemical resistance to strong acids, bases, aromatics and ketones. ECO Conforming.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	20	cm <sup>3</sup> /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2900	MPa	ISO 527
Yield stress	100	MPa	ISO 527
Yield strain	8	%	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2900	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength, -30°C, 4mm	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2900	MPa	ASTM D 638
Tensile Strength at Yield	100	MPa	ASTM D 638
Tensile Strength at Break	75	MPa	ASTM D 638
Elongation at Yield	8	%	ASTM D 638
Elongation at Break	60	%	ASTM D 638
Flexural Modulus	3100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	59	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2100	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	198	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	208	°C	ISO 75-1/-2
Vicat softening temperature, A	220	°C	ISO 306
Vicat softening temperature, B	215	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	215	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	213	°C	ASTM D 648
DTUL @ 264 psi	201	°C	ASTM D 648
Vicat Temperature	227	°C	ASTM D 1525
Thermal Conductivity, solid state	0.0447	W/(m K)	ASTM C 177

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	150	-	IEC 60112
<b>ASTM Data</b>			

**ULTEM™ Resin UF5011S - Americas**

PEI

Saudi Basic Industries Corporation (SABIC)

Dielectric Strength, Short Time	<b>18</b>	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	<b>0.0021</b>	-	ASTM D 150
Dielectric Constant, 60 Hz	<b>3.2</b>	-	ASTM D 150

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>1.2</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
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>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>150</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>365 - 390</b>	°C	-
Mold temperature	<b>135 - 165</b>	°C	-
Zone 1	<b>345 - 365</b>	°C	-
Zone 2	<b>355 - 375</b>	°C	-
Zone 3	<b>365 - 390</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America

**Chemical Resistance**

General Chemical Resistance