

**Product Texts**

ULTEM PW2210 resin is an improved flow 20% glass fiber reinforced amorphous polyetherimide (PEI) resin that is offering a high glass transition temperature (Tg) of 217°C. The material has global food contact compliance (FDA, CN, EC), potable water certifications: NSF 61, KTW-BWGL, EN16421. REG4, ACS, WRAS re-certifications are in progress. Features are excellent mechanical, and dimension properties up to high temperatures also under wet conditions. The material offers very good hydrolytic and chemical resistance for an amorphous material. The material is RoHS compliant. Certified colors are natural (transparent amber) and black.

UL Yellow Card Link [E121562-221093](https://www.ulprospector.com/Europe/PEI/ULTEM-PW2210)

<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>10</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>360</b>	°C	-
Load	<b>5</b>	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>6800</b>	MPa	ISO 527
Stress at break	<b>140</b>	MPa	ISO 527
Strain at break	<b>2</b>	%	ISO 527
Flexural modulus	<b>6500</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>35</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>35</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Izod impact strength, +23°C, 4mm	<b>30</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength, -30°C, 4mm	<b>30</b>	kJ/m <sup>2</sup>	ISO 180/1U
Ball indentation hardness	<b>150</b>	MPa	ISO 2039-1

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Vicat softening temperature, A	<b>223</b>	°C	ISO 306
Vicat softening temperature, B	<b>212</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>218</b>	°C	ISO 306
Burning behav. at thickness h	<b>V-0</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>1.9</b>	mm	-
Thermal Conductivity	<b>0.28</b>	W/(m K)	DIN 52616

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>1</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.55</b>	%	Sim. to ISO 62
Density	<b>1420</b>	kg/m <sup>3</sup>	ISO 1183

<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>370 - 410</b>	°C	-
Mold temperature	<b>140 - 180</b>	°C	-
Feed temperature	<b>80 - 120</b>	°C	-
Zone 1	<b>350 - 400</b>	°C	-
Zone 2	<b>360 - 410</b>	°C	-
Zone 3	<b>370 - 420</b>	°C	-

**Characteristics**

## ULTEM™ Resin PW2210 - Europe

PEI-GF20

Saudi Basic Industries Corporation (SABIC)

### Processing

Injection Molding

### Special Characteristics

Transparent

### Chemical Resistance

General Chemical Resistance

### Certifications

Food contact, Food approval FDA 21 CFR, RoHS compliant

### Regional Availability

Europe