

Product Texts

ULTEM PW2100 resin is an amorphous, opaque, 10% glass fiber reinforced polyetherimide (PEI) plastic offering a glass transition temperature (Tg) of 217°C. This inherently flame retardant resin is KTW, WRAS, ACS, NSF-61 and W270 certified and is US FDA and European Food Contact approved. ULTEM PW2100 resin offers specific colors designed and certified for use in potable water applications.

UL Yellow Card Link [E121562-102518191](https://www.ulprospector.com/Europe/121562-102518191)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4500	MPa	ISO 527
Stress at break	115	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus	4500	MPa	ISO 178
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	30	kJ/m ²	ISO 180/1U
Ball indentation hardness	140	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	223	°C	ISO 306
Vicat softening temperature, B	212	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	217	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.9	mm	-
Thermal Conductivity	0.24	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Water absorption	1	%	Sim. to ISO 62
Humidity absorption	0.6	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	370 - 410	°C	-
Mold temperature	140 - 180	°C	-
Feed temperature	80 - 120	°C	-
Zone 1	340 - 395	°C	-
Zone 2	350 - 405	°C	-
Zone 3	360 - 415	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

Europe

Certifications

Food contact, Food approval FDA 21 CFR