

Product Texts

Transparent Polyetherimide blend. ECO Conforming. US FDA and EU Food Contact Compliant in recognized colors.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm ³ /10min	ISO 1133
Temperature	320	°C	-
Load	5	kg	-

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3300	MPa	ISO 527
Yield stress	115	MPa	ISO 527
Yield strain	6.5	%	ISO 527
Stress at break	75	MPa	ISO 527
Strain at break	13.5	%	ISO 527
Flexural modulus	3250	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	3	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	4	kJ/m ²	ISO 180/1A
Ball indentation hardness	160	MPa	ISO 2039-1

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	177	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	180	°C	ISO 306

Electrical properties

	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	2.9	-	IEC 62631-2-1
Dissipation factor, 1MHz	103	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	150	-	IEC 60112

Other properties

	Value	Unit	Test Standard
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.17	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4 - 8	h	-
Melt temperature	300 - 330	°C	-
Mold temperature	95 - 150	°C	-

Characteristics

Processing

Injection Molding

Certifications

Food contact, Food approval FDA 21 CFR

ULTEM™ Resin 1285 - Europe

PEI

Saudi Basic Industries Corporation (SABIC)

Special Characteristics

Transparent

Regional Availability

Europe