ULTEM™ Resin EXUM0287 - Europe

PEI — Saudi Basic Industries Corporation (SABIC)

Product Texts

Transparent high flow Polyetherimide (Tg 217C).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**25**	cm³/10min	ISO 1133
Temperature	**360**	°C	-
Load	**5**	kg	-
Other Standards[S]			
Molding shrinkage, parallel	**0.6**	%	Producer Method
Molding shrinkage, normal	**0.6**	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3200**	MPa	ISO 527
Yield stress	**105**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Stress at break	**85**	MPa	ISO 527
Strain at break	**60**	%	ISO 527
Flexural modulus, 23°C	**3300**	MPa	ISO 178
Izod impact strength, +23°C	**N**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**5**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**193**	°C	ISO 75-1/-2
Vicat softening temperature, A	**215**	°C	ISO 306

Other properties	Value	Unit	Test Standard
Water absorption	**1.25**	%	Sim. to ISO 62
Humidity absorption	**0.7**	%	Sim. to ISO 62
Density	**1270**	kg/m³	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	**350 - 400**	°C	-
Mold temperature	**135 - 165**	°C	-
Zone 1	**330 - 400**	°C	-
Zone 2	**340 - 400**	°C	-
Zone 3	**345 - 400**	°C	-
Nozzle temperature	**345 - 400**	°C	-
Screw speed	**40 - 70**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Chemical Resistance
Hydrolytically Stable

Special Characteristics
Platable, Heat stabilized or stable to heat, Transparent

Applications
Automotive

Features
Amorphous

Regional Availability
Europe