ULTEM™ Resin AR9300 - Europe

PEI-GF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

30% Glass fiber filled, standard flow Polyetherimide (Tg 217C). Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution. ECO Conforming.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**6**	cm³/10min	ISO 1133
Temperature	**360**	°C	-
Load	**5**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**9500**	MPa	ISO 527
Stress at break	**165**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Flexural modulus	**8500**	MPa	ISO 178
Charpy impact strength, +23°C	**40**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**40**	kJ/m²	ISO 179/1eU
Izod impact strength, +23°C, 4mm	**35**	kJ/m²	ISO 180/1U
Izod impact strength, -30°C, 4mm	**35**	kJ/m²	ISO 180/1U
Ball indentation hardness	**160**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	**220**	°C	ISO 306
Vicat softening temperature, B	**210**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**215**	°C	ISO 306
Thermal Conductivity	**0.29**	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Density	**1490**	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 - 140**	°C	-
Feed temperature	**80 - 120**	°C	-
Zone 1	**350 - 370**	°C	-
Zone 2	**350 - 400**	°C	-
Zone 3	**350 - 410**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

Europe