

ULTEM™ Resin AUR202G6

PEI-GD30

Saudi Basic Industries Corporation (SABIC)

Product Texts

30% Milled glass filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing. ISCC+ certified renewable bio-based solutions are available for this grade via differentiated color nomenclature.

UL Yellow Card Link: [E207780-104631586](https://www.ulprospector.com/usa/Products/207780-104631586)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	10.1	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Izod notched impact strength, +23°C	4.9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	5231	MPa	ASTM D 638
Tensile Strength at Yield	108	MPa	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Modulus	5313	MPa	ASTM D 790
Flexural Strength	173	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Coeff. of linear therm. expansion, parallel	38	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	39	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	211	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.18	%	ASTM D 570
Water Absorption, Equilibrium	0.98	%	ASTM D 570
Density	1510	kg/m ³	ASTM D 792

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

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Processing

Injection Molding

Special Characteristics

Flame retardant

Certifications

ISCC Plus

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America