ULTEM™ Resin 2100 - Americas

PEI-GF10 — Saudi Basic Industries Corporation (SABIC)

Product Texts

Polyetherimide (PEI), 10% Glass fiber filled, standard flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing. NSF 51 listing, WRAS certification in recognized colors.

UL Yellow Card Link E121562-102518191

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**7**	g/10min	ASTM D 1238
Temperature	**337**	°C	-
Load	**6.6**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**4680**	MPa	ASTM D 638
Tensile Strength at Yield	**114**	MPa	ASTM D 638
Tensile Strength at Break	**115**	MPa	ASTM D 638
Elongation at Break	**6**	%	ASTM D 638
Rockwell Hardness	**M 114**	-	ASTM D 785
Izod Impact notched, 1/8 in	**53**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**480**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
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	-
ASTM Data			
Vicat Temperature	**223**	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**27.5**	kV/mm	ASTM D 149
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1340**	kg/m³	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	-
Screw speed	**40 - 70**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America

Applications
Automotive