ULTEM™ Resin 2100F - Americas

PEI-GF10 — Saudi Basic Industries Corporation (SABIC)

Product Texts

10% Glass fiber filled, standard flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing. US FDA and EU Food Contact Compliant, 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	**27.6**	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

Certifications

Food contact, Food approval FDA 21 CFR