ULTEM™ Resin CRS5211R - Asia

PEI-GF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

20% Glass fiber filled, enhanced flow Polyetherimide copolymer (Tg 225C) with internal mold release and enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO conforming.

UL Yellow Card Link E121562-101404949

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**5.5**	g/10min	ASTM D 1238
Temperature	**337**	°C	-
Load	**6.6**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**6890**	MPa	ASTM D 638
Tensile Strength at Yield	**137**	MPa	ASTM D 638
Tensile Strength at Break	**144**	MPa	ASTM D 638
Elongation at Break	**3**	%	ASTM D 638
Izod Impact notched, 1/8 in	**74**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**1.5**	mm	-

Other properties	Value	Unit	Test Standard
Density	**1450**	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	**365 - 390**	°C	-
Mold temperature	**135 - 165**	°C	-
Zone 1	**345 - 365**	°C	-
Zone 2	**355 - 375**	°C	-
Zone 3	**365 - 390**	°C	-
Screw speed	**40 - 70**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Chemical Resistance
General Chemical Resistance

Regional Availability
Asia Pacific