ULTEM™ Resin CRS5111 - Americas

PEI-GF10 Saudi Basic Industries Corporation (SABIC)

Product Texts

10% Glass fiber filled, enhanced flow Polyetherimide copolymer (Tg 225C) with enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO conforming, UL94 V0 and 5 VA listing.

UL Yellow Card Link E121562-221117

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**6.9**	g/10min	ASTM D 1238
Temperature	**337**	°C	-
Load	**6.6**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**4750**	MPa	ASTM D 638
Tensile Strength at Yield	**117**	MPa	ASTM D 638
Tensile Strength at Break	**112**	MPa	ASTM D 638
Elongation at Break	**4**	%	ASTM D 638
Izod Impact notched, 1/8 in	**37**	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	**1360**	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
North America

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