

ULTEM™ Resin AR9100 - Americas

PEI-GF10

Saudi Basic Industries Corporation (SABIC)

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	4340	MPa	ASTM D 638
Tensile Strength at Yield	110	MPa	ASTM D 638
Tensile Strength at Break	119	MPa	ASTM D 638
Elongation at Break	8	%	ASTM D 638
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256

Other properties	Value	Unit	Test Standard
Density	1320	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	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

Regional Availability

North America