

Product Texts

High flow high gloss polyetherimide(PEI) blend with internal mold release and enhanced ductility.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	24	g/10min	ASTM D 1238
Temperature	350	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0058	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0062	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3090	MPa	ISO 527
Yield stress	108	MPa	ISO 527
Yield strain	6.7	%	ISO 527
Stress at break	80	MPa	ISO 527
Strain at break	25	%	ISO 527
Flexural modulus, 23°C	2950	MPa	ISO 178
Flexural strength	156	MPa	ISO 178
Charpy impact strength, +23°C	86	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	3.3	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	128	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3150	MPa	ASTM D 638
Tensile Strength at Yield	107	MPa	ASTM D 638
Tensile Strength at Break	80	MPa	ASTM D 638
Elongation at Yield	6.8	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	3190	MPa	ASTM D 790
Flexural Strength	166	MPa	ASTM D 790
Izod Impact notched, 1/8 in	40	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2100	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	168	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	181	°C	ISO 75-1/-2
Vicat softening temperature, B	187	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	182	°C	ASTM D 648
DTUL @ 264 psi	168	°C	ASTM D 648
Vicat Temperature	184	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1280	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	135	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	320 - 355	°C	-
Mold temperature	110 - 165	°C	-
Zone 1	310 - 330	°C	-
Zone 2	320 - 345	°C	-
Zone 3	330 - 355	°C	-
Nozzle temperature	325 - 350	°C	-

ULTEM™ Resin DT1820EV

PEI

Saudi Basic Industries Corporation (SABIC)

Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Features

Ductile, High Gloss

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America