

Product Texts

Low temperature impact keeping high heat performance, high flow Polyetherimide blend.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	337	°C	-
Load	6.7	kg	-
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.7	kg	-
Mold Shrinkage, MD	0.0084	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0091	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Flexural modulus, 23°C	2780	MPa	ISO 178
Flexural strength	130	MPa	ISO 178
Charpy impact strength, +23°C	99	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	7	kJ/m ²	ISO 180/1A
Izod notched impact strength	6	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	2915	MPa	ASTM D 638
Tensile Strength at Yield	89	MPa	ASTM D 638
Tensile Strength at Break	79	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	57	%	ASTM D 638
Flexural Modulus	2831	MPa	ASTM D 790
Flexural Strength	140	MPa	ASTM D 790
Izod Impact notched, 1/8 in	78	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	73	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	2150	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	188	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	206	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	55	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	57	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	58	E-6/K	ASTM D 696
DTUL @ 66 psi	205	°C	ASTM D 648
DTUL @ 264 psi	190	°C	ASTM D 648
Vicat Temperature	219	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.27	%	ASTM D 570
Water Absorption, Equilibrium	0.12	%	ASTM D 570
Density	1280	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	-

ULTEM™ Resin DU262

PEI

Saudi Basic Industries Corporation (SABIC)

Processing humidity	≤0.02	%	-
Melt temperature	340 - 360	°C	-
Mold temperature	130 - 160	°C	-
Zone 1	330 - 340	°C	-
Zone 2	340 - 350	°C	-
Zone 3	350 - 360	°C	-
Nozzle temperature	345 - 355	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Amorphous, Creep Resistance

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Applications

Aircraft and Aerospace, Automotive, Building Construction, IT / Business Machine, Electrical and Electronical, Medical, Packaging, Sports Equipment

Regional Availability

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