

Product Texts

Improved ductility, transparent, enhanced flow Polyetherimide blend (Tg 200C) with internal mold release and enhanced ductility.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	56	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	43	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	98	MPa	ISO 527
Yield strain	7	%	ISO 527
Stress at break	80	MPa	ISO 527
Strain at break	80	%	ISO 527
Flexural modulus, 23°C	3100	MPa	ISO 178
Charpy notched impact strength, +23°C	2	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	2	kJ/m ²	ISO 180/1A
Izod notched impact strength	2	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	3210	MPa	ASTM D 638
Tensile Strength at Yield	103	MPa	ASTM D 638
Tensile Strength at Break	85	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	80	%	ASTM D 638
Flexural Modulus	3320	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	35	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	N	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
Vicat softening temperature, B	192	°C	ISO 306
Coeff. of linear therm. expansion, parallel	55	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	55	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	60	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	60	E-6/K	ASTM D 696
DTUL @ 264 psi	173	°C	ASTM D 648
Vicat Temperature	192	°C	ASTM D 1525

Other properties

	Value	Unit	Test Standard
Water absorption	0.36	%	Sim. to ISO 62
Humidity absorption	0.08	%	Sim. to ISO 62
Density	1280	kg/m ³	ISO 1183
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	%	-

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PEI

Saudi Basic Industries Corporation (SABIC)

Melt temperature	330 - 355	°C	-
Mold temperature	95 - 135	°C	-
Zone 1	310 - 330	°C	-
Zone 2	320 - 345	°C	-
Zone 3	330 - 355	°C	-
Nozzle temperature	325 - 350	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Release agent

Special Characteristics

Flame retardant, Heat stabilized or stable to heat, Transparent

Features

Amorphous, Creep Resistance, Ductile, Good Adhesion, Low Smoke

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Applications

Electrical and Electronical

Regional Availability

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