

Product Texts

50% Glass fiber and mineral filled, high flow Polyetherimide blend with internal mold release and enhanced dimensional stability. ECO Conforming.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	20	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-
Density of melt	1530	kg/m ³	-
Thermal conductivity of melt	0.36	W/(m K)	-
Spec. heat capacity of melt	1630	J/(kg K)	-
Ejection temperature	185	°C	-
ASTM Data			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	14700	MPa	ISO 527
Yield stress	121	MPa	ISO 527
Yield strain	1.4	%	ISO 527
Stress at break	121	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus	13500	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	14940	MPa	ASTM D 638
Tensile Strength at Yield	125	MPa	ASTM D 638
Tensile Strength at Break	125	MPa	ASTM D 638
Elongation at Yield	2.5	%	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	12900	MPa	ASTM D 790
Izod Impact notched, 1/8 in	50	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	49	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	182	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	195	°C	ISO 75-1/-2
Vicat softening temperature, B	187	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	195	°C	ISO 306
Coeff. of linear therm. expansion, parallel	16.8	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	43.7	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 264 psi	183	°C	ASTM D 648
Vicat Temperature	184	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

ULTEM™ Resin ATX3562R - Americas

PEI-(GF+MF)50

Saudi Basic Industries Corporation (SABIC)

Other properties	Value	Unit	Test Standard
Water absorption	0.1	%	Sim. to ISO 62
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1690	kg/m ³	ISO 1183
Density	1690	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	350 - 370	°C	-
Mold temperature	135 - 165	°C	-
Zone 1	340 - 360	°C	-
Zone 2	345 - 365	°C	-
Zone 3	350 - 370	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Applications

Automotive