

Product Texts

Transparent polyetherimide (Tg 247C). Very low outgassing and plateout, for automotive lighting applications where highly metallized, reflective surfaces are required. Haze onset temperature of 230C (SABIC Innovative Plastics method)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	360	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	15.5	g/10min	ASTM D 1238
Temperature	367	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3110	MPa	ISO 527
Yield stress	95	MPa	ISO 527
Yield strain	8.5	%	ISO 527
Stress at break	78	MPa	ISO 527
Strain at break	16.8	%	ISO 527
Flexural modulus	3080	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3510	MPa	ASTM D 638
Tensile Strength at Yield	96	MPa	ASTM D 638
Tensile Strength at Break	96	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	3170	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	74	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	228	°C	ISO 75-1/-2
Vicat softening temperature, B	242	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	238	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	217	°C	ASTM D 648
Vicat Temperature	242	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	1.75	%	Sim. to ISO 62
Humidity absorption	0.6	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183
Density	1300	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	350 - 400	°C	-
Mold temperature	135 - 165	°C	-

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Zone 1	330 - 400	°C	-
Zone 2	340 - 400	°C	-
Zone 3	345 - 400	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Automotive

Special Characteristics

Transparent

Regional Availability

Asia Pacific