

Product Texts

10% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). UL94 V0 and 5VA listing. For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO 10993 or USP Class VI), food contact compliant; Steam, Gamma, EtO, and E-beam sterilizable.

UL Yellow Card Link [E121562-101082080](https://www.ulprospector.com/1121562-101082080)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	11.3	g/10min	ASTM D 1238
Temperature	337	°C	-
Load	6.6	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9500	MPa	ISO 527
Yield stress	165	MPa	ISO 527
Yield strain	2	%	ISO 527
Stress at break	165	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	6890	MPa	ISO 178
Charpy notched impact strength, +23°C	65	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	64	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	70	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4610	MPa	ASTM D 638
Tensile Strength at Yield	114	MPa	ASTM D 638
Tensile Strength at Break	115	MPa	ASTM D 638
Elongation at Break	6	%	ASTM D 638
Flexural Modulus	6850	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	64	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
Vicat softening temperature, B	220	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	213	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.2	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.9	mm	-
ASTM Data			
Vicat Temperature	220	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.9	%	Sim. to ISO 62
Humidity absorption	0.5	%	Sim. to ISO 62
Density	1420	kg/m ³	ISO 1183
Density	1340	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	-
Zone 1	330 - 400	°C	-

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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

Medical

Special Characteristics

Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

Regional Availability

North America

Certifications

Food contact, Food approval FDA 21 CFR, US Pharmacopeia Class VI Approved