

Product Texts

Medium flow specialty polycarbonate - improved processability & autoclavability. For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO10993 or USP Class VI). EtO and steam sterilizable.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	5.5	%	ISO 527
Stress at break	61	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2150	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	65	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	55	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	65	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	55	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2210	MPa	ASTM D 638
Tensile Strength at Yield	58	MPa	ASTM D 638
Tensile Strength at Break	64	MPa	ASTM D 638
Elongation at Yield	5.8	%	ASTM D 638
Elongation at Break	131	%	ASTM D 638
Flexural Modulus	2210	MPa	ASTM D 790
Rockwell Hardness	L89	-	ASTM D 785
Izod Impact notched, 1/8 in	890	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	795	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	118	°C	ISO 75-1/-2
Vicat softening temperature, B	141	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	142	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	124	°C	ASTM D 648
Vicat Temperature	141	°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

Other properties

	Value	Unit	Test Standard
Water absorption	0.12	%	Sim. to ISO 62
Humidity absorption	0.09	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

Density	1190	kg/m ³	ASTM D 792
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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	270 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°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

Regional Availability

Europe

Certifications

US Pharmacopeia Class VI Approved