

**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
<b>ISO Data</b>			
Melt volume-flow rate, MVR	9	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
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
<b>ASTM Data</b>			
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
<b>ISO Data</b>			
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
<b>ASTM Data</b>			
DTUL @ 264 psi	124	°C	ASTM D 648
Vicat Temperature	141	°C	ASTM D 1525

**Electrical properties**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1E15	Ohm	ASTM D 257
Volume Resistivity	1E15	Ohm*cm	ASTM D 257

**Other properties**

	Value	Unit	Test Standard
Water absorption	0.24	%	Sim. to ISO 62
Humidity absorption	0.09	%	Sim. to ISO 62
Density	1190	kg/m <sup>3</sup>	ISO 1183
Density	1190	kg/m <sup>3</sup>	ASTM D 792

**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	<b>295 - 315</b>	°C	-
Mold temperature	<b>70 - 95</b>	°C	-
Zone 1	<b>270 - 295</b>	°C	-
Zone 2	<b>280 - 305</b>	°C	-
Zone 3	<b>295 - 315</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Ethylene Oxide (EtO) Sterilization, Steam sterilization

**Certifications**

US Pharmacopeia Class VI Approved

**Applications**

Medical

**Regional Availability**

Europe