CALIBRE™ 2061P-15
Polycarbonate Resin

Overview

CALIBRE™ 2061P-15 is a medical grade polycarbonate resin containing PTFE. This resin is designed to have reduced coefficient of friction and enhanced wear properties. CALIBRE 2061P-15 has been tested according to ISO 10993 (Biological Evaluation of Medical Devices). It is suitable for radiation, ethylene oxide, and steam sterilization as needed in the health care industry.

Main Characteristics:

- Tested under ISO 10993
- Wear resistant

Applications:

- Medical applications
- Surgical Device Handles
- Drug Delivery Devices

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.28	g/cm³	1.28	g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15	g/10 min	15	g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow	6.0E-3 to 8.0E-3	in/in	0.60 to 0.80	%	ASTM D955
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus					
-- [1]	334000	psi	2300	MPa	ASTM D638
--	319000	psi	2200	MPa	ISO 527-1/1
Tensile Strength					
Yield [2]	7300	psi	50.3	MPa	ASTM D638
Yield	7280	psi	50.2	MPa	ISO 527-2/50
Break [2]	6600	psi	45.5	MPa	ASTM D638
Break	8270	psi	57.0	MPa	ISO 527-2/50
Tensile Elongation					
Yield [2]	5.2	%	5.2	%	ASTM D638
Yield	5.2	%	5.2	%	ISO 527-2/50
Break [2]	55	%	55	%	ASTM D638
Break	70	%	70	%	ISO 527-2/50
Flexural Modulus					
--	348000	psi	2400	MPa	ASTM D790
-- [3]	319000	psi	2200	MPa	ISO 178
Flexural Strength					
--	11600	psi	80.0	MPa	ASTM D790
-- [3]	11200	psi	77.0	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact					
73°F (23°C)	3.3	ft·lb/in	180	J/m	ASTM D256
73°F (23°C)	17	ft·lb/in²	35	kJ/m²	ISO 180/1A
Instrumented Dart Impact [4]					ASTM D3763
73°F (23°C), Total Energy	310	in·lb	35.0	J	

Thermal	Nominal Value (English)		Nominal Value (SI)		Test Method
Deflection Temperature Under Load					
66 psi (0.45 MPa), Unannealed	279	°F	137	°C	ASTM D648
66 psi (0.45 MPa), Unannealed	280	°F	138	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	253	°F	123	°C	ASTM D648 ISO 75-2/A
Vicat Softening Temperature					
--	302	°F	150	°C	ASTM D1525 [5]
--	291	°F	144	°C	ISO 306/B50

Injection	Nominal Value (English)		Nominal Value (SI)	
Drying Temperature	248	°F	120	°C
Drying Time	4.0	hr	4.0	hr
Suggested Max Moisture	0.020	%	0.020	%
Processing (Melt) Temp	572 to 599	°F	300 to 315	°C
Mold Temperature	176 to 230	°F	80 to 110	°C