

CELANEX 4002 | Impact Modified

unfilled, high impact PBT

Physical Properties	Value	Unit	Test Standard
Density	1240	kg/m ³	ISO 1183
Melt flow rate (MFR)	4	g/10 min	ISO 1133
MFR test temperature	250	°C	ISO 1133
MFR test load	2.16	Kg	ISO 1133
Mechanical Properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	1450	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	32	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	4.0	%	ISO 527-2/1A
Tensile stress at break (50mm/min)	28	Mpa	ISO 527-2/1A
Tensile strain at break (50mm/min)	90	%	ISO 527-2/1A
Flexural modulus (23°C)	1450	MPa	ISO 178
Flexural strength (23°C)	50.0	MPa	ISO 178
Notched impact strength (Izod) @ 23°C	75.0	KJ/m ²	ISO 180/1A
Thermal Properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	225	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	49	°C	ISO 75-1, -2
Processing Properties	Value	Unit	Test Standard
Processing method	injection molding		Internal
Rear temperature	450-470 (230-240)	°F (°C)	Internal
Center temperature	455-482 (235-250)	°F (°C)	Internal
Front temperature	470-500 (240-260)	°F (°C)	Internal
Nozzle temperature	482- 00 (250-260)	°F (°C)	Internal
Melt temperature	482-518 (250-270)	°F (°C)	Internal
Mold temperature	149-248 (65-120)	°F (°C)	Internal
Back pressure	0-50	psi	Internal
Drying	4 hrs at 250 deg F, <.02% moisture		Internal
Regrind	up to 25%, clean and dry	%	Internal

Disclaimer

Disclaimer:

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. Colorants or other additives may cause significant variations in data values. These values are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Any determination of the suitability of this material for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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Product is not intended for use in medical or dental implants.

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