

Technical Data Sheet

Eastman TREVA™ Engineering Bioplastic OP6026 Clear

Applications

- Ophthalmics

Key Attributes

- Dimensional stability
- Easy polish and paint
- Excellent flow
- Warm touch and feel

Product Description

Eastman TREVA™ is a new cellulose-based engineering bioplastic that offers both high performance and reduced environmental impact. TREVA is warm to touch, dimensionally stable and offers excellent flow and easy polish and paint for processing.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General Properties		
Specific Gravity	D 792	1.22
Mechanical Properties		
Tensile Stress @ Yield	D 638	49 MPa (7107 psi)
Tensile Stress @ Break	D 638	48 MPa (6962 psi)
Elongation @ Break	D 638	18 %
Flexural Modulus	D 790	1940 MPa (2.81 x 10 ⁵ psi)
Rockwell Hardness, R Scale	D 785	100
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	216 J/m (4.05 ft·lbf/in.)
@ -40°C (-40°F)	D 256	100 J/m (1.87 ft·lbf/in.)
Miscellaneous Properties		
Mold Shrinkage, normal	D 955	0.7 %
Permanence Properties		
Water Absorption, 24 h immersion	D 570	2.3 %
Target Processing Conditions		
Drying Temperature in a Desiccant Dryer		75 °C (170 °F)
Drying Time in a Desiccant Dryer		4 hours
Barrel Set Temperature ^e		235 °C (455 °F)
Mold Temperature		85 °C (185 °F)
Injection Speed		30 mm/sec (1.2 in./sec)
Maximum Barrel Residence Time		4 minutes
Thermal Properties		
Deflection Temperature ^d		
@ 0.455 MPa (66 psi)	D 648	114 °C (238 °F)
@ 1.82 MPa (264 psi)	D 648	99 °C (210 °F)
Vicat Softening Temperature ^d	D 1525	135 °C (275 °F)

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^dConditioned 4 hours at 70°C (158°F).

^eWith actual measured melt temperature not to exceed 260°C (500°F).

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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