



TENITE Propionate 380A4000010 Clear, Trsp Product Data Sheet

Property ^a	Test ^b Method	Typical Value, Units ^c
Plasticizer		10%
Specific Gravity	D 792	1.20
Mechanical Properties		
Tensile Stress @ Yield	D 638	37.2 MPa (5400 psi)
Tensile Stress @ Break	D 638	37.9 MPa (5500 psi)
Elongation @ Break	D 638	45%
Flexural Modulus	D 790	1724 MPa (2.50 x 10 ⁵ psi)
Flexural Yield Strength	D 790	48.3 MPa (7000 psi)
Rockwell Hardness, R Scale	D 785	94
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	304 J/m (5.7 ft·lbf/in.)
@ -40°C (-40°F)	D 256	75 J/m (1.4 ft·lbf/in.)
Thermal Properties		
Deflection Temperature ^d		
@ 1.82 MPa (264 psi)	D 648	80°C (176°F)
@ 0.455 MPa (66 psi)	D 648	88°C (190°F)
Vicat Softening Temperature ^d	D 1525	102°C (216°F)
Permanence Properties		
Water Absorption, 24 h immersion	D 570	1.7%
Soluble Matter Loss	D 570	0.1%
Weight Loss on Heating [72 hours @ 80°C (176°F)]	D 1562	0.3%
Miscellaneous Propionate Properties		
Refractive Index, n _D	D 542	1.46-1.49
Light Transmission ^e	E 308	>90%
Haze ^e	D 1003	<8.5%
Specific Heat @ 23°C (73°F)	DSC	1.26-1.67 kJ/kg·K (0.301-0.399 Btu/lb·°F)
Thermal Conductivity	C 177	0.17-0.33 W/m·K (1.2-2.3 Btu·in./h·ft ² ·°F)
Coefficient of Linear Thermal Expansion	D 696	11 - 17 x 10 ⁻⁵ /°C (mm/mm·°C) (6 - 9 x 10 ⁻⁵ /°F (in./in·°F))
Mold Shrinkage	D 955	0.2-0.6%
Dielectric Strength	D 149	11.8-18.7 kV/mm (300-475 V/mil)
Dielectric Constant 1 MHz	D 150	3.3-3.8
Dissipation Factor 1 MHz	D 150	0.01-0.15

^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 @ 70°C (158°F)

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^e1.52-mm (0.06-in.) thickness

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Characteristics

Formula 380 - base

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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