

Eastman Tenite 105-23 Cellulose Acetate (discontinued **)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Cellulosic , Cellulose Acetate, Molded

Material Notes:

ISO data as provided by the manufacturer, Eastman Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tenite-105-23-Cellulose-Acetate-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.0 MPa	6090 psi	50 mm/min
Elongation at Break	20 %	20 %	
Elongation at Yield	3.3 %	3.3 %	
Tensile Modulus	2.20 GPa	319 ksi	1mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.62 J/cm ²	7.71 ft-lb/in ²	
	0.590 J/cm ²	2.81 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	101 µm/m-°C	56.1 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	129 µm/m-°C	71.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	

Vicat Softening Point Thermal Properties	87.0 °C Metric	189 °F English	Comments
Glass Transition Temp, Tg	106 °C	223 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 245 °C	446 - 473 °F	

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