

Eastman EASTALLOY Polymer DA105, Natural Alloy (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

General: All ISO tests are run @ 4-mm thickness with the exception of Impact Resistance, which is run @ 2-mm thickness. Comments: Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform to the values given information provided by Eastman Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-EASTALLOY-Polymer-DA105-Natural-Alloy-nbspdiscontinued-.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527
Elongation at Break	120 %	120 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Flexural Yield Strength	74.0 MPa	10700 psi	ISO 178
	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched	NB	NB	ASTM D256
	1.39 J/cm	2.60 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.34 J/g-°C	0.320 BTU/lb-°F	
	@Temperature 60.0 °C	@Temperature 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	2.60 J/g-°C	0.621 BTU/lb-°F	
	@Temperature 240 °C	@Temperature 464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ASTM D648 and ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648 and ISO 75
Vicat Softening Point	108 °C	226 °F	5 kg load; ISO 306
	119 °C	246 °F	1 kg load; ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	2.4	2.4	ASTM D 150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	2.6	2.6	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.3 kV/mm	439 kV/in	Short Time, 500 V/sec rate-of-rise; ASTM D 149
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	0.0080	0.0080	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	142 sec	142 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638
High Voltage Arc-Tracking Rate, HVTR	17.7 mm/min	0.697 in/min	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	292.5 °C	558.5 °F	
Mold Temperature	37.5 °C	99.5 °F	
Drying Temperature	95.0 °C	203 °F	
Dry Time	5 hour	5 hour	

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