

LATI LATISTAT 43/7-02 Low Density Polyethylene (LDPE) Base Conductive Plastic (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

Description: Latistat materials have low specific resistivity. They feature partial electrical conductivity. Selected functional additives give materials with low specific resistivity and reasonable mechanical properties. The LATISTAT compounds are used in all applications where product surface must be completely and permanently free of static charges. Addition of carbons supplying electric semi-conductivity will diminish the flowability and good surface finish of the materials, and limiting the prospects of obtaining colored products. Applications: cabinets, containers, boxes for storage and handling of discharge-sensitive electronic components, casings and bodies for electrical and mechanical components to be used in areas where flammable and explosive materials are processed, parts for typewriters, printers, photocopiers, parts for textile machinery, racks and tracks for printed circuits; electro-medical equipment. Specific Notes for this Material: low density polyethylene base (LD-PE); low specific resistance; good flexibility and shock resistance. Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guide-lines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document. All data provided by LATI.

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http://www.lookpolymers.com/polymer_LATI-LATISTAT-437-02-Low-Density-Polyethylene-LDPE-Base-Conductive-Plastic-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	LATI
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	LATI
Melt Flow	8.0 g/10 min	8.0 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.0 MPa	2180 psi	ISO 527
Flexural Modulus	0.430 GPa	62.4 ksi	ASTM D790
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.50 J/cm	2.81 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D256
Charpy Impact Unnotched	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	50.0 °C	122 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	38.0 °C	100 °F	ASTM D648
Vicat Softening Point	52.0 °C	126 °F	50°C/h 50N; ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	IEC 93

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 220 °C	392 - 428 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Injection Speed	medium	

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