

Rotuba 870 Ethyl Cellulose

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

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rotuba-870-Ethyl-Cellulose.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792-60T

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ASTM D785
Tensile Strength, Ultimate	26.0 MPa	3770 psi	ASTM D638-61T
Elongation at Break	32 %	32 %	ASTM D638-61T
Izod Impact, Notched	3.10 J/cm	5.81 ft-lb/in	ASTM D256-56
	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	147 °C	297 °F	Flow temperature, ASTM D569-59
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	ASTM D648-56

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.43	3.43	ASTM D150-54T
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	3.46	3.46	ASTM D150-54T
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0043	0.0043	ASTM D150-54T
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0205	0.0205	ASTM D150-54T
	@Frequency 10000 Hz	@Frequency 10000 Hz	

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