

## Rotuba 856, Slow Burning 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-856-Slow-Burning-Ethyl-Cellulose.php](http://www.lookpolymers.com/polymer_Rotuba-856-Slow-Burning-Ethyl-Cellulose.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	ASTM D792-60T
Linear Mold Shrinkage	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Ultimate	27.0 MPa	3920 psi	ASTM D638-61T
Elongation at Break	34 %	34 %	ASTM D638-61T
Izod Impact, Notched	2.56 J/cm	4.80 ft-lb/in	ASTM D256-56
	0.530 J/cm @Temperature -40.0 °C	0.993 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	110 - 200 µm/m-°C @Temperature 20.0 °C	61.1 - 111 µin/in-°F @Temperature 68.0 °F	ASTM D696
Specific Heat Capacity	1.20 - 2.80 J/g-°C	0.287 - 0.669 BTU/lb-°F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	146 °C	295 °F	Flow temperature, ASTM D569-59
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ASTM D648-56

Optical Properties	Metric	English	Comments
Refractive Index	1.47	1.47	

Electrical Properties	Metric	English	Comments
	3.35	3.35	

<b>Dielectric Constant Electrical Properties</b>	<b>Metric</b> @Frequency 10000 Hz	<b>English</b> @Frequency 10000 Hz	<b>ASTM D150-54T Comments</b>
	<b>3.41</b>	<b>3.41</b>	<b>ASTM D150-54T</b>
	@Frequency 1000 Hz	@Frequency 1000 Hz	
<b>Dissipation Factor</b>	<b>0.0068</b>	<b>0.0068</b>	<b>ASTM D150-54T</b>
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	<b>0.0189</b>	<b>0.0189</b>	<b>ASTM D150-54T</b>
	@Frequency 10000 Hz	@Frequency 10000 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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