

DSM Arnitel® EM631 TPC-ET

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester TPE , Polyester, TP

Material Notes:

Extrusion Grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnitel-EM631-TPC-ET.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	Sim. To ISO 62
Moisture Absorption	0.200 %	0.200 %	Sim. To ISO 62
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 230 °C	6.5 g/10 min @Load 4.76 lb, Temperature 446 °F	cm ³ /10min Melt Volume-flow Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61 @Time 3.00 sec	61 @Time 0.000833 hour	ISO 868
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ISO 527-1/-2
Tensile Stress	15.8 MPa @Strain 100 %	2290 psi @Strain 100 %	ISO 527-1/-2
	15.9 MPa @Strain 10.0 %	2310 psi @Strain 10.0 %	ISO 527-1/-2
Tensile Modulus	0.310 GPa	45.0 ksi	ISO 527-1/-2
Charpy Impact, Notched	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	185 µm/m-°C	103 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	185 µm/m-°C	103 µin/in-°F	ISO 11359-1/-2
Melting Point	212 °C	414 °F	10°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
Heat Softening Point	123 °C	200 °F	50 °C/110 °F; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 60243-1
Dissipation Factor	0.011	0.011	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.034	0.034	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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