

Arnitel® EM631

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® EM631 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Europe or North America for extrusion. Primary attribute of Arnitel® EM631: Flame Rated.

General Information			
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	6.50	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	310	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	35.0	MPa	
10% Strain	15.9	MPa	
100% Strain	15.8	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	12	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ISO 306/B50
Melting Temperature ¹	212	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.9E-4	cm/cm/°C	
Transverse	1.9E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.40		
Dissipation Factor			IEC 60250

100 Hz	0.011		
1 MHz	0.034		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.60 mm)	HB		IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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