

Arnitel® EM740

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® EM740 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Europe or North America for extrusion. Primary attribute of Arnitel® EM740: Flame Rated.

General Information			
UL YellowCard	E47960-240194		
Processing Method	Extrusion		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Apparent Density	0.82	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	38.0	MPa	
5.0% Strain	31.0	MPa	
10% Strain	34.5	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	160	°C	ISO 306/B50
Melting Temperature ¹	221	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.7E-4	cm/cm/°C	
Transverse	1.7E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	23	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.40		
Dissipation Factor (1 MHz)	0.040		IEC 60250
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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