

Arnitel® EM550

Thermoplastic Copolyester Elastomer

DSM Engineering Plastics

Message:

Arnitel® EM550 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Asia Pacific, Europe, or North America for extrusion. Important attributes of Arnitel® EM550 are:
Flame Rated
Mold Release Agent

General Information			
UL YellowCard	E47960-240192		
Additive	Mold Release		
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	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	8.70	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.65	%	
Equilibrium, 23°C, 50% RH	0.20	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	52		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	200	MPa	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	9.00	MPa	
10% Strain	12.0	MPa	
50% Strain	14.0	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	25	kJ/m ²	
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ISO 306/B50
Melting Temperature ¹	207	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.5E-4	cm/cm/°C	

Transverse	1.5E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength	21	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.40		
1 MHz	4.00		
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
Extrusion	Nominal Value	Unit	
Melt Temperature	215 to 260	°C	
NOTE			
1.	10°C/min		

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