

Arnitel® PM581

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® PM581 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Asia Pacific, Europe, or North America for extrusion. Primary attribute of Arnitel® PM581: Flame Rated.

General Information			
Processing Method	Extrusion		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	2.5	%	
Equilibrium, 23°C, 50% RH	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	53		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	300	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	24.5	MPa	
5.0% Strain	9.30	MPa	
10% Strain	13.1	MPa	
50% Strain	17.0	MPa	
100% Strain	17.9	MPa	
Nominal Tensile Strain at Break	200	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	16	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	25	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ISO 306/B50
Melting Temperature ¹	218	°C	ISO 11357-3
CLTE			ISO 11359-2

Flow	1.1E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	21	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.70		
1 MHz	4.40		
Dissipation Factor			IEC 60250
100 Hz	0.031		
1 MHz	0.081		
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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