

Arnitel® UM551-V

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® UM551-V is a Thermoplastic Copolyester Elastomer (TPC-ES) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Arnitel® UM551-V are:
Flame Retardant
Halogen Free

General Information			
UL YellowCard	E47960-240197		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.25	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 3 sec	55		
Shore D, 15 sec	55		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	250	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	27.0	MPa	
10% Strain	13.0	MPa	
100% Strain	17.5	MPa	
Nominal Tensile Strain at Break	380	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	No Break		ISO 179/1eA
Notched Izod Impact Strength (23°C)	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B

Vicat Softening Temperature	90.0	°C	ISO 306/B50
Melting Temperature ¹	200	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	5.20		IEC 60250
Dissipation Factor (100 Hz)	2.0E-6		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	200 to 220	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	220 to 240	°C	
Nozzle Temperature	230 to 250	°C	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	20.0 to 50.0	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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