

Arnitel® CM600-V

Thermoplastic Copolyester Elastomer

DSM Engineering Plastics

Message:

Arnitel® CM600-V is a Thermoplastic Copolyester Elastomer (TPC-ES) material. It is available in Asia Pacific, Europe, or North America for extrusion. Important attributes of Arnitel® CM600-V are:

- Flame Rated
- Flame Retardant
- Halogen Free

General Information			
UL YellowCard	E47960-100797022		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	420	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	20.5	MPa	
5.0% Strain	16.0	MPa	
10% Strain	19.5	MPa	
50% Strain	17.5	MPa	
100% Strain	16.0	MPa	
Nominal Tensile Strain at Break	200	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	No Break		ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-20°C	9.0	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	205	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1

Relative Permittivity		IEC 60250	
100 Hz	4.20		
1 MHz	3.70		
Dissipation Factor		IEC 60250	
100 Hz	0.016		
1 MHz	0.039		
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.750 mm)	V-2		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	120	°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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