

DSM Arnitel® CM551 TPC-ES

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester TPE , Polyester, TP

Material Notes:

Heat Resistant Copolyester

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnitel-CM551-TPC-ES.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	cm ³ /10min Melt Volume-flow Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51 @Time 3.00 sec	51 @Time 0.000833 hour	ISO 868
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ISO 527-1/-2
Elongation at Break	450 %	450 %	ISO 527-1/-2
Tensile Modulus	0.140 GPa	20.3 ksi	ISO 527-1/-2
Izod Impact Resistance	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1A
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	190 µm/m-°C	106 µin/in-°F	ISO 11359-1/-2
Melting Point	205 °C	401 °F	10°C/min; ISO 11357-1/-3
Vicat Softening Point	170 °C	338 °F	50 °C/h 50N; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.58 @Frequency 1.00e+6 Hz	3.58 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dielectric Strength	15.0 kV/mm	381 kV/in	IEC 60243-1
Dissipation Factor	0.0212	0.0212	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.046	0.046	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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