

## DSM Arnitel® VT3104 TPC-ET

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

Material Notes:

Extrusion Grade

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Arnitel-VT3104-TPC-ET.php](http://www.lookpolymers.com/polymer_DSM-Arnitel-VT3104-TPC-ET.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 1183
Water Absorption	7.0 %	7.0 %	Sim. To ISO 62
Moisture Absorption	0.400 %	0.400 %	Sim. To ISO 62
Melt Flow	13.5 g/10 min @Load 2.16 kg, Temperature 230 °C	13.5 g/10 min @Load 4.76 lb, Temperature 446 °F	cm <sup>3</sup> /10min Melt Volume-flow Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	13.1 MPa	1900 psi	ISO 527-1/-2
Tensile Stress	4.40 MPa @Strain 10.0 %	638 psi @Strain 10.0 %	ISO 527-1/-2
	8.80 MPa @Strain 50.0 %	1280 psi @Strain 50.0 %	ISO 527-1/-2
	10.9 MPa @Strain 100 %	1580 psi @Strain 100 %	ISO 527-1/-2
Elongation at Break	200 %	200 %	ISO 527-1/-2
Tensile Modulus	0.0600 GPa	8.70 ksi	ISO 527-1/-2
Izod Impact Resistance	NB	NB	ISO 180/1A
	NB	NB	ISO 180/1A
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	83.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	83.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-1/-2
Melting Point	212 $^\circ\text{C}$	414 $^\circ\text{F}$	10 $^\circ\text{C}/\text{min}$ ; ISO 11357-1/-3
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	IEC 60093
Dielectric Constant	4.4	4.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	4.7	4.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243-1
Dissipation Factor	0.031	0.031	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.081	0.081	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

## Contact Songhan Plastic Technology Co.,Ltd.

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