

DSM Arnite® AV2 390 XT PET GF50

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 50% Glass Reinforced

Material Notes:

50% Glass Reinforced, Applications with extremely narrow tolerances

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-AV2-390-XT-PET-GF50.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	Sim. To ISO 62
Moisture Absorption	0.120 %	0.120 %	Sim. To ISO 62
Viscosity	15000 cP	15000 cP	
	@Shear Rate 100000 1/s, Temperature 315 °C	@Shear Rate 100000 1/s, Temperature 599 °F	
	20000 cP	20000 cP	
	@Shear Rate 100000 1/s, Temperature 295 °C	@Shear Rate 100000 1/s, Temperature 563 °F	
	25000 cP	25000 cP	
	@Shear Rate 100000 1/s, Temperature 270 °C	@Shear Rate 100000 1/s, Temperature 518 °F	
	200000 cP	200000 cP	
	@Shear Rate 1000 1/s, Temperature 295 °C	@Shear Rate 1000 1/s, Temperature 563 °F	
	230000 cP	230000 cP	
	@Shear Rate 1000 1/s, Temperature 315 °C	@Shear Rate 1000 1/s, Temperature 599 °F	
	300000 cP	300000 cP	
	@Shear Rate 1000 1/s, Temperature 270 °C	@Shear Rate 1000 1/s, Temperature 518 °F	
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	210 MPa	30500 psi	ISO 527-1/-2

Mechanical Properties	Metric	English	Comments
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	35.0 µm/m-°C	19.4 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.47 mm	@Thickness 0.0579 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.810 mm	@Thickness 0.0319 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.011	0.011	

Electrical Properties	Metric @Frequency 1.00e+6	English @Frequency 1.00e+6	IEC 60250 Comments
	Hz	Hz	
Comparative Tracking Index	250 V	250 V	IEC 60112

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