

DSM Arnite® AV2 370 HF PET-GF35

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 40% Glass Reinforced

Material Notes:

35% Glass Reinforced, Brake Booster Body Valves, High Flow

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-AV2-370-HF-PET-GF35.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Water Absorption	0.45 %	0.45 %	Sim. To ISO 62
Moisture Absorption	0.180 %	0.180 %	Sim. To ISO 62
Viscosity	12500 cP	12500 cP	
	@Shear Rate 100000 1/s, Temperature 310 °C	@Shear Rate 100000 1/s, Temperature 590 °F	
	15000 cP	15000 cP	
	@Shear Rate 100000 1/s, Temperature 290 °C	@Shear Rate 100000 1/s, Temperature 554 °F	
	17500 cP	17500 cP	
	@Shear Rate 100000 1/s, Temperature 270 °C	@Shear Rate 100000 1/s, Temperature 518 °F	
	110000 cP	110000 cP	
	@Shear Rate 100 1/s, Temperature 310 °C	@Shear Rate 100 1/s, Temperature 590 °F	
	175000 cP	175000 cP	
	@Shear Rate 100 1/s, Temperature 290 °C	@Shear Rate 100 1/s, Temperature 554 °F	
	250000 cP	250000 cP	
	@Shear Rate 100 1/s, Temperature 270 °C	@Shear Rate 100 1/s, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	200 MPa	29000 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527-1/-2

Mechanical Properties	Metric ¹ /cm ²	English ^{1b} /in ²	Comments
Charpy Impact, Unnotched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 J/cm ²	5.23 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	25.0 µm/m-°C	13.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	40.0 µm/m-°C	22.2 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 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 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	
	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	33.0 kV/mm	838 kV/in	IEC 60243-1
Dissipation Factor	0.0030	0.0030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.013	0.013	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	IEC 60112

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