

DSM Arnite® A06 700 PET (European Grade)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Arnite resins are engineered to provide specific performance in applications where DSM technology can offer value. Arnite Molding resins: Standard Unfilled and Reinforced materials High modulus Flame retardant grades Easy molding FR grades for connectors Toughened unfilled materials for durability High modulus, tight specification for critical auto components Toughened reinforced resins Low outgassing grades for reflector surfaces Arnite extrusion resins: Specialized materials for specific uses PET for medical applications Loose buffer Optical fiber tubing PET for stock shapes Applications Automotive: Connectors, sensors and E&E parts, Exterior fittings, Gear housings and motors, Brake valve bodies Electrical & Electronic: Telecoms and IT connectors, Bobbins, Low voltage Power distribution, E-motor components, Lightings and Lamp fittings Consumer Durables: Small Appliances Other: Optical fiber tubing Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-A06-700-PET-European-Grade.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	Humidity Absorption; Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.25 GPa	326 ksi	ISO 527-1/-2
Charpy Impact, Notched	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 µm/m-°C @Temperature 20.0 °C	41.7 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	75.0 µm/m-°C @Temperature 20.0 °C	41.7 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
Melting Point	255 °C	491 °F	10°C/min; ISO 11357-1/-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Other Extrusion	Yes		
Profile extrusion	Yes		
Sheet extrusion	Yes		
Without Fillers	Yes		

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