

## DSM Arnite® T06 204 SN PBT (European and Asian Grade)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

### 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-T06-204-SN-PBT-European-and-Asian-Grade.php](http://www.lookpolymers.com/polymer_DSM-Arnite-T06-204-SN-PBT-European-and-Asian-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.45 %	0.45 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	0.18 %	0.18 %	Humidity Absorption; Sim. to ISO 62
Melt Flow	59.04 g/10 min @Load 2.16 kg, Temperature 250 °C	59.04 g/10 min @Load 4.76 lb, Temperature 482 °F	Calculated from Volume Flow Rate of 41 cm <sup>3</sup> /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO 527-1/-2
Elongation at Break	5.5 %	5.5 %	ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-1/-2
Tensile Modulus	3.20 GPa	464 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2

Thermal Properties <small>CTE, linear, transverse to Flow</small>	70.0 µm/m-°C Metric	38.9 µm/in-°F English	Comments <small>ISO 11353-1/-2</small>
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 75-1/-2
UL RTI, Electrical	75.0 °C	167 °F	UL746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	75.0 °C	167 °F	UL746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	75.0 °C	167 °F	UL746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	75.0 °C	167 °F	UL746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	75.0 °C	167 °F	UL746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	75.0 °C	167 °F	UL746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	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
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Comparative Tracking Index	175 - 249 V	175 - 249 V	PLC 3; UL 746A
	225 V	225 V	

Descriptive Properties	Value	Comments
Flame Retardant	Yes	

Flame Retarding Agent Descriptive Properties	Yes Value	Comments
Injection molding	Yes	
Release Agent	Yes	
Without Fillers	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

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