

Arkema Group Rilsan® AZM 23 G9 T6LD Nylon 12, 23% Glass Fiber Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 20% Glass Fiber Filled

Material Notes:

Designation ISO 1874-PA12,MHLR,16-050,(G+C)(F+D)(23+05)Rigid grade with glass fiber (23%) and graphite filler for injection molding. Available color: steel black gray. Reinforced light and heat stabilizing agent. Mold-release agent.Rigidity. Low friction coefficient. High compressive strength. Very low shrinkage: include 0,5% on average for the design of the mold. Low coefficient of linear expansion. High dimensional stability.Example applications: Mechanical parts with friction such as gear and bearing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AZM-23-G9-T6LD-Nylon-12-23-Glass-Fiber-Filled-Conditioned.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|----------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | |
| Melt Flow | 3.7 g/10 min | 3.7 g/10 min | |
| | @Load 2.16 kg, Temperature 235 °C | @Load 4.76 lb, Temperature 455 °F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|----------|
| Tensile Strength, Ultimate | 99.0 MPa | 14400 psi | 5 mm/min |
| Elongation at Break | 4.0 % | 4.0 % | 5 mm/min |
| Tensile Modulus | 6.60 GPa | 957 ksi | 1 mm/min |
| Charpy Impact Unnotched | 7.03 J/cm ² | 33.5 ft-lb/in ² | |
| | 7.28 J/cm ² | 34.6 ft-lb/in ² | |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 1.23 J/cm ² | 5.85 ft-lb/in ² | |
| | 0.960 J/cm ² | 4.57 ft-lb/in ² | |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|----------------------|----------------------|----------|
| CTE, linear, Parallel to Flow | 60.0 µm/m-°C | 33.3 µin/in-°F | |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Melting Point | 174 °C | 345 °F | (Dry) |
| Deflection Temperature at 0.46 MPa | 173 °C | 343 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|--------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 165 °C | 329 °F | |
| Vicat Softening Point | 165 °C | 329 °F | 50°C/hr; 50N |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 3.10 mm | @Thickness 0.122 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|----------|
| Electrical Resistivity | 1.00e+12 ohm-cm | 1.00e+12 ohm-cm | |
| Surface Resistance | 1.00e+11 ohm | 1.00e+11 ohm | |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | |
| Comparative Tracking Index | 300 V | 300 V | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China