

Arkema Group Rilsan® KMVO 39099 TL Nylon 11 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11 , Unreinforced

Material Notes:

Designation ISO 1874-PA11,MHL,18-010Steel gray rigid grade for injection molding. Available color: natural. Light and heat stabilized.Low shrinkage: include 1% on average for the design of the mold. High dimensional stability due to its low moisture absorption.Potable water contact approval WRC 940 7502.Example applications: All sort of pieces for food applications.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-KMVO-39099-TL-Nylon-11-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Melt Flow	8.8 g/10 min @Load 2.16 kg, Temperature 235 °C	8.8 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	5.0 %	5.0 %	50 mm/min
Tensile Modulus	1.42 GPa	206 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.15 J/cm ²	5.47 ft-lb/in ²	
	1.38 J/cm ² @Temperature -30.0 °C	6.57 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	
Vicat Softening Point	160 °C	320 °F	50°C/hr; 50N

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