

Arkema Group Rilsan® AESN P302 TL Nylon 12, Flexible Tubing Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Extrusion/Tubing Grade

Material Notes:

(Former designation: RILSAN MA 4403) Designation ISO 1874-PA12-HI,EHL,22-003 Flexible grade for tubes extrusion. Available color: black. Light and thermal stabilized. Flexibility. High burst pressure and impact strength. Fit for use in a wide range of temperature. Very good chemical resistance. Example applications: Tubes for air brake applications for trucks. approved by ISO 7628, DIN 73378 (PA12-HIPL), NFR 12632, SAEJ 844. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AESN-P302-TL-Nylon-12-Flexible-Tubing-Grade-Dry.php

Physical Properties	Metric	English	Comments
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 235 °C	6.0 g/10 min @Load 4.76 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	27 %	27 %	50 mm/min
Tensile Modulus	0.475 GPa	68.9 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	4.56 J/cm ²	21.7 ft-lb/in ²	Partial Break
	0.400 J/cm ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	147 µm/m-°C @Temperature 20.0 °C	81.7 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.14e+14 ohm-cm	1.14e+14 ohm-cm	

Surface Resistance Electrical Properties	7.74e+13 ohm Metric	7.74e+13 ohm English	Comments
Dielectric Strength	40.7 kV/mm	1030 kV/in	
Comparative Tracking Index	600 V	600 V	

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