

Arkema Group Rilsan® ARVO 950 TLD Nylon 12, Rotomolding Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Designation ISO 1874-PA12,RHLR,16-010Grade for rotomolding. Available color: natural. Light and heat stabilized. Mold-release agent.Easy to be processed in the same conditions as polyethylene. High thermal and chemical resistance. Outstanding mechanical properties. Low permeability to gas and hydrocarbon.Example applications: Oil tank, hydraulic fluid tank.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-ARVO-950-TLD-Nylon-12-Rotomolding-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	

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	11 %	11 %	50 mm/min
Tensile Modulus	1.08 GPa	157 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.670 J/cm ²	3.19 ft-lb/in ²	
	0.590 J/cm ²	2.81 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	
Vicat Softening Point	142 °C	288 °F	50°C/hr; 50N

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Comparative Tracking Index	600 V	600 V	

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