

Arkema Group Rilsan® BESHV Nylon 11, Blow Molding Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA11,E,24-010 Rigid grade for extrusion blow molding. Available color: natural. Additive free. Very good impact strength. Well adapted melt strength. High chemical resistance. Food contact approval EEC directive N 90/128. Example applications: Oil drum. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESHV-Nylon-11-Blow-Molding-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Melt Flow	0.80 g/10 min	0.80 g/10 min	
	@Load 10.0 kg, Temperature 235 °C	@Load 22.0 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.0 MPa	5510 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	22 %	22 %	50 mm/min
Tensile Modulus	1.34 GPa	194 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	Low Temp
	NB	NB	
Charpy Impact, Notched	0.710 J/cm ²	3.38 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C	47.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	183 °C	361 °F	(Dry)
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

Thermal Properties Flammability, UL 94	V-2 Metric	V-2 English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

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	

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