Arkema Rilsan® MB 3750 Nylon 11, Transparent Grade (Conditioned) (Unverified Data**)

Categories: Polymer; Thermoplastic; Nylon (Polyamide PA); Nylon 11 (PA11)

Material Notes: Designation ISO 1874-PA11/xx,F,THL,22-020

Transparent semi-crystalline PA11 grade.

Used for film extrusion and injection molding (low thickness).

Very good low temperature impact strength.

High chemical resistance.

ISO data provided by the manufacturer, Arkema.

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	6.0 %	6.0 %	50 mm/min
Tensile Modulus	1.53 GPa	222 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	1.25 J/cm² @Temperature -30.0 °C	5.95 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	183 °C	361 °F	(Dry)

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.