

Arkema Group Cristamid® MS 1100 Semi-Aromatic Nylon (PASA) (Conditioned)

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

Material Notes:

Designation ISO 1874-PA12/xx,MHLR,12-020Semi-aromatic polyamide (PASA) grade for injection molding and tubes extrusion. Transparency even thick. High resistance to environmental stress cracking. Good mechanical properties. Good thermal resistance. Dimensional stability. Example applications: Glasses. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Cristamid-MS-1100-Semi-Aromatic-Nylon-PASA-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	8.0 %	8.0 %	50 mm/min
Tensile Modulus	2.03 GPa	294 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	0.850 J/cm ²	4.05 ft-lb/in ²	
	1.24 J/cm ²	5.90 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	
Vicat Softening Point	115 °C	239 °F	50°C/hr; 50N
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	
Dielectric Constant	3.4	3.4	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	50.0 kV/mm	1270 kV/in	
Dissipation Factor	0.020	0.020	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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