

EMS-Grivory Grivory® L 25 nat PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 25 is a high viscosity polyamide 12. This product has the following features: Very tasteless High toughness, even at low temperatures Good resistance to weathering Good chemical resistance Mechanical properties only slightly dependent on relative humidity Significantly lower water absorption than polyamide 6 Application examples: Grilamid L 25 is suitable for the manufacture of blown and cast film being mono or coextruded. Grilamid L 25 is used for artificial sausage casings for precooked sausages and packaging films for deep-frozen goods. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-25-nat-PA12.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption	1.5 %	1.5 %	ISO 62
Moisture Absorption	0.700 %	0.700 %	ISO 62
Water Vapor Transmission	8.00 g/m ² /day	0.515 g/100 in ² /day	23°C/85%r.h.; DIS 15106-1/-2
Oxygen Transmission Rate	350 cc/m ² /day	22.5 cc/100 in ² /day	23°C/0%r.h.; DIS 15105-1/-2
	370 cc/m ² /day	23.8 cc/100 in ² /day	23°C/85%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	1500 cc-mm/m ² -24hr-atm	3810 cc-mil/100 in ² -24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
	1600 cc-mm/m ² -24hr-atm	4060 cc-mil/100 in ² -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	20 g/10 min	20 g/10 min	(MVR) [cm ³ /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	conditioned; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Film Tensile Strength at Yield, MD	35.0 MPa	5080 psi	ISO 527-3
Film Tensile Strength at Yield, TD	35.0 MPa	5080 psi	ISO 527-3
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Film Elongation at Break, MD	850 %	850 %	ISO 527-3
Film Elongation at Break, TD	900 %	900 %	ISO 527-3

Mechanical Properties	Metric	English	Comments
Film Elongation at Yield, MD	6.0 %	6.0 %	ISO 527-3
Film Elongation at Yield, TD	6.0 %	6.0 %	ISO 527-3
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	10 %	10 %	dry; ISO 527-1/-2
	12 %	12 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.10 GPa	160 ksi	conditioned; ISO 527-1/-2
	1.40 GPa	203 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Tear Strength	20.0 kN/m	114 pli	Trouser Tear resistance MD; ISO 6383-1
	25.0 kN/m	143 pli	Trouser Tear resistance TD; ISO 6383-1
Elmendorf Tear Strength MD	1020 g	1020 g	ISO 6383-2
Elmendorf Tear Strength TD	1020 g	1020 g	ISO 6383-2
Film Tensile Strength at Break, MD	80.0 MPa	11600 psi	ISO 527-3
Film Tensile Strength at Break, TD	70.0 MPa	10200 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3

Optical Properties	Metric	English	Comments
Gloss	150 %	150 %	60°; ISO 2813

Optical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Food contact		EU Requirements	
		FDA	
Form		Granules	
Gelboflex test [holes/m ²], EMS		1300	
Industry & Consumer goods		Medical devices	
Medical		USP VI	
Packaging		Non oriented film	
Processing		Film Extrusion	
		Injection Molding	
		Other Extrusion	
Product Attributes		High viscosity	

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