EMS-Grivory Grivory® G 25 PA6I/6T

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grivory G 25 is a very high viscous amorphous copolyamide. It is suitable for injection stretch blow molding, injection blow molding, extrusion blow molding, the manufacture of coextruded blown film and mono-or coextruded cast film and coextrusion of tubes. Grivory G 25 is also used as an additive for polyamide 6 and different copolyamides to improve film properties. The key properties of Grivory G 25 are: High transparency and high surface glossVery good chemical resistanceVery good abrasion resistanceExcellent flavor and aroma barrierImproved gas and aroma barrier at elevated relative humidityLow transmission of UV radiation Application examples: Barrier layer for mono- or coextruded rigid packaging (EBM or ISBM bottles), barrier tubes, barrier layer in multilayer films for flexible food and cosmetics packaging, barrier layer modifier for flexible meat/cheese or other food packaging.Information provided by EMS Grivory

Order this product through the following link:
http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-G-25-PA6I6T.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Water Vapor Transmission	7.00 g/m²/day	0.451 g/100 in²/day	23°C/85%r.h.; DIS 15106-1/-2
Oxygen Transmission Rate	10.0 cc/m²/day	0.644 cc/100 in²/day	23°C/85%r.h.; DIS 15105-1/-2
	30.0 cc/m²/day	1.93 cc/100 in²/day	23°C/0%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	40.0 cc-mm/m²-24hr-atm	102 cc-mil/100 in²-24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
	90.0 cc-mm/m²-24hr-atm	229 cc-mil/100 in²-24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
Melt Flow	12 g/10 min	12 g/10 min	(MVR) [cm³/10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	85.0 MPa	12300 psi	ISO 527-3
Film Tensile Strength at Yield, TD	85.0 MPa	12300 psi	ISO 527-3
Film Elongation at Break, MD	300 %	300 %	ISO 527-3
Film Elongation at Break, TD	300 %	300 %	ISO 527-3
Film Elongation at Yield, MD	5.0 %	5.0 %	ISO 527-3
Film Elongation at Yield, TD	5.0 %	5.0 %	ISO 527-3

Mechanical Properties	Metric	English	Comments
Tensile Modulus	3.00 GPa	435 ksi	conditioned; ISO 527-1/-2
	3.00 GPa	435 ksi	dry; ISO 527-1/-2
Charpy Impact, Notched	0.800 J/cm²	3.81 ft-lb/in²	dry; ISO 179/1eA
	0.800 J/cm²	3.81 ft-lb/in²	conditioned; ISO 179/1eA
	0.200 J/cm² @Temperature 30.0 °C	0.952 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	0.800 J/cm² @Temperature 30.0 °C	3.81 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
Tear Strength	5.00 kN/m	28.5 pli	Trouser Tear resistance MD; ISO 6383-1
	5.00 kN/m	28.5 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	85.0 MPa	12300 psi	ISO 527-3
Film Tensile Strength at Break, TD	85.0 MPa	12300 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Transformation Temperature, Tg	125 °C	257 °F	10°C/min; ISO 11357-1/-2

Optical Properties	Metric	English	Comments
Gloss	160 %	160 %	60°; ISO 2813

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	
Form	Granules	
Packaging	Blow moulded containers	
	Cosmetics / Personal care	
	Injectionstretchblowmoulded containers	
	Tubes	
Processing	Extrusion - blow molding	

Descriptive Properties	Value	Comments
	Injection (stretch) blow molding	
Product Attributes	Barrier Properties	
	High viscosity	
	Partially aromatic Polyamide	
Special Characteristics	Transparent	

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