

EMS-Grivory Grivory® FG 40 NL nat 6025 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon FG 40 NL natural 6025 is a modified, high viscosity polyamide 6. Compared to conventional polyamide 6 Grilon FG40 NL natural 6025 offers the following improvements: Better gas barrier properties at elevated humidity and after pasteurization and sterilization Better optical and UV- barrier properties Better aroma barrier and flavor protection Better thermoforming and orientation properties Application examples: Grilon FG 40 natural 6025 is suitable for production of mono and coextruded cast and blown films Grilon FG 40 natural 6025 is used for the manufacture of oriented films, sausage casings and deep-drawn films. It is also suitable for packaging such as meat cheese and fish (pouches, shells, covers) at elevated humidity levels. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-FG-40-NL-nat-6025-PA6.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-------------------------------------|--|--|
| Density | 1.15 g/cc | 0.0415 lb/in ³ | ISO 1183 |
| Water Absorption | 9.0 % | 9.0 % | ISO 62 |
| Moisture Absorption | 3.00 % | 3.00 % | ISO 62 |
| Water Vapor Transmission | 10.0 g/m ² /day | 0.644 g/100 in ² /day | 23°C/85%r.h.; DIS 15106-1/-2 |
| Oxygen Transmission Rate | 25.0 cc/m ² /day | 1.61 cc/100 in ² /day | 23°C/0%r.h.; DIS 15105-1/-2 |
| | 30.0 cc/m ² /day | 1.93 cc/100 in ² /day | 23°C/85%r.h.; DIS 15105-1/-2 |
| Carbon Dioxide Transmission | 80.0 cc-mm/m ² -24hr-atm | 203 cc-mil/100 in ² -24hr-atm | 23°C/0%r.h.; DIS 15105-1/-2 |
| | 150 cc-mm/m ² -24hr-atm | 381 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 |
|------------------------------------|----------|----------|---------------------------|
| Film Tensile Strength at Yield, MD | 40.0 MPa | 5800 psi | ISO 527-3 |
| Film Tensile Strength at Yield, TD | 40.0 MPa | 5800 psi | ISO 527-3 |
| Film Elongation at Break, MD | 600 % | 600 % | ISO 527-3 |
| Film Elongation at Break, TD | 900 % | 900 % | ISO 527-3 |
| Film Elongation at Yield, MD | 10 % | 10 % | ISO 527-3 |
| Film Elongation at Yield, TD | 7.0 % | 7.0 % | ISO 527-3 |
| Tensile Modulus | 1.10 GPa | 160 ksi | conditioned; ISO 527-1/-2 |

| Mechanical Properties | Metric ^{Pa} | English | Comments ^{1/-/2} |
|------------------------------------|----------------------|-----------|--|
| Coefficient of Friction, Dynamic | 0.30 | 0.30 | ISO 8295 |
| Tear Strength | 50.0 kN/m | 285 pli | Trouser Tear resistance MD; ISO 6383-1 |
| | 50.0 kN/m | 285 pli | Trouser Tear resistance TD; ISO 6383-1 |
| Elmendorf Tear Strength MD | 1530 g | 1530 g | ISO 6383-2 |
| Elmendorf Tear Strength TD | 1530 g | 1530 g | ISO 6383-2 |
| Film Tensile Strength at Break, MD | 100 MPa | 14500 psi | ISO 527-3 |
| Film Tensile Strength at Break, TD | 90.0 MPa | 13100 psi | ISO 527-3 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|--------------------------|
| Melting Point | 222 °C | 432 °F | 10°C/min; ISO 11357-1/-3 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|---------------|
| Gloss | 100 % | 100 % | 60°; ISO 2813 |

| Descriptive Properties | Value | Comments |
|------------------------|----------------------|----------|
| Food contact | EU Requirements | |
| | FDA | |
| Form | Granules | |
| Packaging | Medical packaging | |
| | Non oriented film | |
| | Oriented film | |
| | Paper coating | |
| | Tubes | |
| Processing | Blown Film Extrusion | |
| | Film Extrusion | |
| | Other Extrusion | |
| Product Attributes | Barrier Properties | |
| | High viscosity | |

Descriptive Properties

Value

Comments

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