

Data Sheet Advanced-PP 1128 N

Description

Advanced-PP 1128 N is a polypropylene homopolymer & suited for cast film application. It contains slip & antiblocking agents.

Application

Cast film & water quenched tubular films.

Regulatory Information:

The Grade Advanced-PP 1128N and additives incorporated comply with United States FDA Regulation 21CFR 177.1520 Olefin Polymers and European Regulation (EU) 10/2011 (and its amendments). Specific information is available upon request.

Properties (Typical values)

| Properties | Unit | Test method | Value |
|--|---------------------|-------------|---------|
| Melt Flow Rate | | | |
| Melt flow rate (230°C / 2.16 KG) | g / 10 min | ISO 1133 | 10.5 |
| Mechanical Properties | | | |
| Tensile modulus of elasticity (v= 1 mm/min) | MPa | ISO 527-2 | 1500 |
| Tensile stress at yield (v= 50 mm/min) | MPa | ISO 527-2 | 35 |
| Tensile strain at yield (v= 50 mm/min) | % | ISO 527-2 | 9 |
| Tensile strain at break (v= 50 mm/min) | % | ISO 527-2 | >50 |
| Ball indentation hardness (H 358/30) | MPa | ISO 2039-1 | 76 |
| Thermal Properties | | | |
| Melting point, DSC | °C | ISO 3146 | 163 |
| Heat deflection temperature ----- HDT/B (0.45 Mpa) | °C | ISO 75-2 | 85 |
| Vicat softening temperature ----- VST/A50 (10 N) | °C | ISO 306 | 154 |
| Film properties, cast film 50 µm** | | | |
| Gloss 20°C | % | ISO 2813 | 100 |
| Haze*** | % | ASTM D 1003 | 2.7 |
| Tear strength (longitud / transvers) | MPa | DIN 53455 | 42/38 |
| Elongation at break (longitude / transvers) | % | DIN 53455 | 680/720 |
| Flexural modulus (longitude / transvers) | MPa | DIN 53121 | 700/670 |
| Dart drop impact strength F 50 | g | ASTM D 1709 | 280 |
| Coefficient of sliding friction | | DIN 53375 | 0.18 |
| Other Properties | | | |
| Density | g / cm ³ | ISO 1183 | 0.91 |

**The values were determined using film made under our own standardised conditions. When making comparisons with films produced under other conditions, the strong relationship between the film properties and manufacturing conditions must always be taken in to account.

***Injection - moulded disk , thickness =1mm

Values given here are typical and should not be interpreted as specification. In a view of many factors that may affects processing and application, these data do not relieve the receiver to this information from the responsibility of carry out their own test and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for specific purpose of the product made with or on the basis of the information in this publication.

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