

Chemlon® MD21

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, June 30, 2017

General Information

Product Description

MD21 is a medium viscosity grade of nylon 6 designed for wire coating extrusion. MD21 is heavily pigment and is designed to provide good opacity even with thin coatings. It also features a lubrication system that is designed to ensure excellent adhesion between the wire and the coating - as well as optimal processing characteristics at high line speeds. MD21 is available in a range of colours - including heavy metal free options.

General

| | | | |
|-------------------|-----------------------------|-----------------------|--------------|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | • North America | |
| Additive | • Lubricant | | |
| Features | • Good Adhesion | • Good Processability | • Lubricated |
| Uses | • Wire & Cable Applications | • Wire Jacketing | |
| Appearance | • Colors Available | • Opaque | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---------------------------------------------------|------------------|-------------------|-----------------|
| Density | 1.14 to 1.38 | g/cm ³ | ISO 1183 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus | 435000 to 522000 | psi | ISO 178 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (264 psi, Unannealed) | 185 to 203 | °F | ISO 75-2/A |
| Additional Information | Nominal Value | Unit | Test Method |
| Filler Content | 0.0 to 25 | % | Internal Method |

Processing Information

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Drying Temperature | 176 to 212 | °F |
| Drying Time | 2.0 | hr |
| Cylinder Zone 1 Temp. | 482 to 572 | °F |
| Cylinder Zone 3 Temp. | 482 to 572 | °F |
| Cylinder Zone 5 Temp. | 482 to 572 | °F |
| Melt Temperature | < 572 | °F |

Notes

¹ Typical properties: these are not to be construed as specifications.

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