

AXELERON™ CX K-0012 NT

Nucleating Agent Masterbatch

The Dow Chemical Company

Message:

DOW™AXELERON™CX K-0012 NT is a masterbatch, which is used as a nucleating agent in gas injection processing. It is specially developed for easy mixing with HDPE and LDPE. When used, a small, evenly distributed cell structure can be made. The masterbatch is based on high-pressure LDPE resin, and 2% of a heating chemical foaming agent is added. The usage of this product should be 0.5-3% masterbatch content. DOW™AXELERON™CX K-0012 NT contains a stabilizer to prevent thermal oxidation and copper-induced catalyst degradation.

Application areas:

Typical application areas include RF cables and CATV lead-in cables, with a foaming rate of up to 80%.

| General Information | | | |
|--|-----------------------------|-------------------|-------------|
| Uses | Coaxial Cable Insulation | | |
| | Wire and cable applications | | |
| | Insulating material | | |
| | Masterbatch | | |
| | Foam | | |
| | Communication Equipment | | |
| Forms | Particle | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.928 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) ¹ (140°C/2.16 kg) | 1.7 | g/10 min | ISO 1133 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 170 - 190 | °C | |
| Extrusion instructions | | | |
| Dow AXELERON™ CX K-0012 NT Polyethylene Masterbatch is designed to be extruded with HDPE DGDA-6944 NT and LDPE DFDK-1253 NT from Dow. It is normally added at 0.5 - 3 % masterbatch concentration into a blend of 60 - 80 % DGDA-6944 NT and 20 - 40 % DFDK-1253 NT. It is normally extruded with a target melt temperature of 170 - 190 °C. Typical extruder barrel temperatures required depend on the extruder size and construction being made but a good starting point is: Feed zone: 140 -150 °C Transition zone: 160 -170 °C Injection point: 180 -190 °C Metering zone: 180 -190 °C Crosshead and Die: 180 -190 °C | | | |
| NOTE | | | |

1. Measured on MFR cut-off without annealing.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

