

TABOREX TA 1109 MD

High Density Polyethylene

SILON s.ro

Message:

A chemically-crosslinkable HDPE compound for the production of high-flexible pipes with an improved surface quality for under floor heating application. TA 1109 MD is a crosslinkable compound made by Silane grafted ethylene polymer. This graft polymer constitutes together with a Masterbatch containing the crosslinking catalyst a "SIOPLAS-SYSTEM". Pipes produced with the SILON grade TA 1109 MD fulfil the requirements of DIN 16892 and all related standards.

This system allows the compound to be extruded as a normal thermoplastic polymer, which will attain a high level of crosslinking in the processed form. The final product has all the improved properties associated with crosslinked polyethylene.

| General Information | | | |
|---|---------------------------|-------------------|-----------------------|
| Features | Crosslinkable | | |
| Uses | Piping system | | |
| Forms | Sphere | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.936 | g/cm ³ | DIN 53479, ASTM D1505 |
| Apparent Density | 0.52 | g/cm ³ | DIN 53466 |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 2.9 | g/10 min | Internal method |
| Moisture Content | | % | Internal method |
| Volatile Matter | | % | Internal method |
| Gel Content ¹ | 75 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Break) | 16.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 150 | % | ISO 527-2 |
| Extrusion | Nominal Value | Unit | |
| Drying Temperature | 80.0 - 90.0 | °C | |
| Drying Time | 2.0 | hr | |
| Cylinder Zone 1 Temp. | 160 - 170 | °C | |
| Cylinder Zone 2 Temp. | 170 - 180 | °C | |
| Cylinder Zone 3 Temp. | 170 - 190 | °C | |
| Cylinder Zone 4 Temp. | 170 - 190 | °C | |
| Die Temperature | 190 - 220 | °C | |
| Extrusion instructions | | | |
| L/D: >25Compression ratio: 3:1 to 2.5 : 1Head: 200 to 210°CScrew: 70°C to 90 °C | | | |
| NOTE | | | |
| 1. | DIN 16892/ ASTM F 876-99a | | |

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