



## Lupolen 4261 A Q 416

### Polyethylene, High Density

#### Product Description

**Lupolen 4261 A Q 416** is a high density polyethylene (HDPE) with high melt viscosity for extrusion of radiation crosslinked pipes (PE-Xc). The product has a high heat- and extremely high extraction stability.  
It is not intended for medical and pharmaceutical applications.

#### Product Characteristics

|                                      |   |
|--------------------------------------|---|
| <b>Status</b>                        | Commercial: Active                              |
| <b>Test Method used</b>              | ISO   |
| <b>Availability</b>                  | Europe  |
| <b>Processing Methods</b>            | Extrusion Pipe Sheet and Semi Finished Products |
| <b>Typical Customer Applications</b> | Plumbing, Heating & Cooling                     |

| Typical Properties                             | Method        | Value | Unit     |
|--|---------------|-------|----------|
| Physical                                       |               |       |          |
| Density  | ISO 1183      | 0.946 | g/cm³    |
| Melt flow rate (MFR)                           | ISO 1133      |       |          |
| (190°C/5.0kg)                                  |               | 0.5   | g/10 min |
| (190°C/21.6kg)                                 |               | 8.5   | g/10 min |
| Mechanical                                     |               |       |          |
| Tensile Modulus (23 °C, v = 1 mm/min, Secant)  | ISO 527-1, -2 | 850   | MPa      |
| Tensile Stress at Yield (23 °C, v = 50 mm/min) | ISO 527-1, -2 | 24    | MPa      |
| Tensile Strain at Yield (23 °C, v = 50 mm/min) | ISO 527-1, -2 | 10    | %        |
| Hardness                                       |               |       |          |
| Shore hardness (Shore D (3 sec))               | ISO 868       | 62    |          |
| Ball indentation hardness (H 132/30)           | ISO 2039-1    | 40    | MPa      |
| Thermal  |               |       |          |
| Vicat softening temperature                    | ISO 306       |       |          |
| (VST/A/50 K/h (10 N))                          |               | 125   | °C       |
| (VST/B/50 K/h (50 N))                          |               | 75    | °C       |
| Melting Temperature                            | ISO 3146      | 131   | °C       |

#### Additional Properties

Processing:  
Recommended melt temperatures: 190-220 °C

#### Notes

Typical properties; not to be construed as specifications.