

Petrothene® NA420

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA420 is a series of LDPE/EVA copolymer resins selected by customers for high impact and clarity packaging film.

| General Information | |
|---------------------|-----------------------------|
| Features | Copolymer |
| | Impact resistance, high |
| | Definition, high |
| | Compliance of Food Exposure |
| Uses | Packaging |
| | Films |
| Agency Ratings | FDA 21 CFR 177.1350 |
| Forms | Particle |
| Processing Method | Film extrusion |
| | Blow film |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.924 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.5 | g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 2.5 | wt% | |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 32 | µm | |
| secant modulus | | | ASTM D882 |
| 1% secant, MD: 32 µm | 138 | MPa | ASTM D882 |
| 1% secant, TD: 32 µm | 172 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Yield, 32 µm | 22.8 | MPa | ASTM D882 |
| TD: Yield, 32 µm | 16.5 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Broken, 32 µm | 350 | % | ASTM D882 |
| TD: Broken, 32 µm | 550 | % | ASTM D882 |
| Dart Drop Impact (32 µm) | 80 | g | ASTM D1709 |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 32 µm | 220 | g | ASTM D1922 |
| TD : 32 µm | 250 | g | ASTM D1922 |

| Thermal | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-------------|
| Vicat Softening Temperature | 90.0 | °C | ASTM D1525 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 166 - 193 | °C | |
| Extrusion instructions | | | |

Blow Up Ratio: 1.7:1 to 3.0:1

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

