

Technical Data Sheet

Petrothene NA283245



Low Density Polyethylene

Product Description

Petrothene NA283245 is a homopolymer resin that combines clarity with strength and stiffness. In addition, NA283245 exhibits good impact strength on both flat and creased film. NA283245 provides enhanced clarity and sparkle in thin packaging films, such as bread and bakery bags.

| | |
|--------------------------|-----------------------|
| Application | Clarity Film |
| Market | Flexible Packaging |
| Processing Method | Blown Film; Cast Film |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 3.0 | g/10 min | 3.0 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.928 | g/cm ³ | 0.928 | g/cm ³ | ASTM D1505 |
| Film | | | | | |
| Tensile Strength at Break | | | | | |
| MD | 2800 | psi | 19.3 | MPa | ASTM D882 |
| TD | 2000 | psi | 13.8 | MPa | ASTM D882 |
| Tensile Strength at Yield | | | | | |
| MD | 1300 | psi | 8.96 | MPa | ASTM D882 |
| TD | 1300 | psi | 8.96 | MPa | ASTM D882 |
| Tensile Elongation at Break | | | | | |
| MD | 320 | % | 320 | % | ASTM D882 |
| TD | 470 | % | 470 | % | ASTM D882 |
| 1% Secant Modulus | | | | | |
| MD | 30000 | psi | 207 | MPa | ASTM D882 |
| TD | 34000 | psi | 234 | MPa | ASTM D882 |
| Elmendorf Tear Strength | | | | | |
| MD | 175 | g | 175 | g | ASTM D1922 |
| TD | 240 | g | 240 | g | ASTM D1922 |
| Optical | | | | | |
| Haze | 4.8 | % | 4.8 | % | ASTM D1003 |
| Gloss, (45°) | 82 | | 82 | | ASTM D2457 |
| Additive | | | | | |
| Slip | 1000 | ppm | 1000 | ppm | LYB Method |
| Antiblock | 5500 | ppm | 5500 | ppm | LYB Method |