SCLAIR® 58A

High Density Polyethylene

NOVA Chemicals

Message:

SCLAIR® 58A is a High Density Polyethylene material. It is available in North America for blow molding. Important attributes of SCLAIR® 58A are: Food Contact Acceptable High ESCR (Stress Crack Resistant) High Stiffness Impact Resistant Processing Aid Typical applications include: Food Contact Applications Automotive Containers Medical/Healthcare

| UL YellowCard E146584-223411 Additive Processing Aid Features Food Contact Acceptable Good Impact Resistance High Density High Density High ESCR (Stress Crack Resist.) High Stiffness Kontant Acceptable Uses Blow Molding Applications Containers Containers Non-specific Food Applications FPA 21 CFR 177.1520(r) 3.2a Forms Pellets Processing Method Blow Molding Physical Norminal Value Opport gr(nn*) Astm D792 Meth Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.41 Key Jolo hr Astm D1238 Environmental Stress-Cracking Resistance (100% logeal, F50) 100 hr MethAmas-Flow Rate (MFR) (190°C/2.16 kg) Norminal Value Unit Containers Good Import Strength* Environmental Stress-Cracking Resistance (100% logeal, F50) Norminal Value Unit Environmental Stress-Cracking Resistance (100% logeal, F50) Norminal Value Unit Durometer Hardness (Shore D) 67 ASTM D1693A | General Information | | | | | |
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| Durometer Hardness (Shore D) 67 ASTM D2240 Mechanical Nominal Value Unit Test Method | | 100 | hr | ASTM D1693A | | |
| Mechanical Nominal Value Unit Test Method | Hardness | Nominal Value | Unit | Test Method | | |
| | Durometer Hardness (Shore D) | 67 | | ASTM D2240 | | |
| Tensile Strength ¹ (Yield) 31.0 MPa ASTM D638 | Mechanical | Nominal Value | Unit | Test Method | | |
| | Tensile Strength ¹ (Yield) | 31.0 | MPa | ASTM D638 | | |

| Tensile Elongation | | | ASTM D638 |
|-----------------------------|---------------|------|-------------|
| Break ² | 860 | % | |
| Break ³ | 50 | % | |
| Flexural Modulus | 1210 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 125 | °C | ASTM D1525 |
| NOTE | | | |
| 1. | 500 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 500 mm/min | | |

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