

## Technical Data Sheet

### Hostalen ACP 5331 A

High Density Polyethylene



#### Product Description

Hostalen ACP 5331 A is a high density polyethylene with an excellent combination of stiffness and ESCR and a good impact resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include larger jerry cans and drums up to 60 l for the packaging of dangerous goods. Hostalen ACP 5331 A is not intended for use in medical and pharmaceutical applications.

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                                                          |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America |
| <b>Application</b>       | Drums; Industrial Packaging; Jerry Cans                                                                     |
| <b>Market</b>            | Industrial Packaging                                                                                        |
| <b>Processing Method</b> | Extrusion Blow Molding                                                                                      |
| <b>Attribute</b>         | Antioxidant; Good Impact Resistance; High ESCR (Environmental Stress Cracking Resistance); High Rigidity    |

| Typical Properties                      | Nominal Value | Units             | Test Method   |
|-----------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                         |               |                   |               |
| Melt Flow Rate, (190 °C/21.6 kg)        | 6.5           | g/10 min          | ISO 1133-1    |
| Density                                 | 0.952         | g/cm <sup>3</sup> | ISO 1183-1    |
| Bulk Density                            | >0.500        | g/cm <sup>3</sup> | ISO 60        |
| Intrinsic Viscosity                     | 400           | ml/g              | ISO 1628-3    |
| <b>Mechanical</b>                       |               |                   |               |
| Tensile Modulus                         | 1050          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                 | 26            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield                 | 10            | %                 | ISO 527-1, -2 |
| FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C) | 100           | hr                | ISO 16770     |
| <b>Impact</b>                           |               |                   |               |
| Tensile Impact Strength                 | 150           | kJ/m <sup>2</sup> | ISO 8256      |
| Note: notched, type 1, method A, -30 °C |               |                   |               |
| <b>Hardness</b>                         |               |                   |               |
| Ball Indentation Hardness, (H 132/30)   | 47            | MPa               | ISO 2039-1    |
| <b>Thermal</b>                          |               |                   |               |
| Vicat Softening Temperature, (B50)      | 80            | °C                | ISO 306       |
| <b>Processing Parameters</b>            |               |                   |               |
| Melt Temperature                        | 180 - 220     | °C                |               |

