

# SNOLEN® EB 0.15/54

High Density Polyethylene  
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES  
High impact strength. Good environmental stress cracking resistance.  
MAJOR APPLICATIONS  
Containers. Open-head drums. Packing of hazardous consumer goods.

| General Information                                                      |                                  |                   |                 |
|--------------------------------------------------------------------------|----------------------------------|-------------------|-----------------|
| Features                                                                 | High Density                     |                   |                 |
|                                                                          | High ESCR (Stress Crack Resist.) |                   |                 |
|                                                                          | High Impact Resistance           |                   |                 |
| Uses                                                                     | Containers                       |                   |                 |
|                                                                          | Drums                            |                   |                 |
|                                                                          | Packaging                        |                   |                 |
| Forms                                                                    | Pellets                          |                   |                 |
| Processing Method                                                        | Extrusion Blow Molding           |                   |                 |
| Physical                                                                 | Nominal Value                    | Unit              | Test Method     |
| Density (23°C)                                                           | 0.950 to 0.954                   | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR)                                                |                                  |                   | ISO 1133        |
| 190°C/21.6 kg                                                            | 2.4 to 3.0                       | g/10 min          |                 |
| 190°C/5.0 kg                                                             | 0.090 to 0.15                    | g/10 min          |                 |
| Environmental Stress-Cracking Resistance <sup>1</sup> (80°C, 2% Arkopal) | 6.00                             | hr                | ISO 16770       |
| Melt Flow Ratio                                                          | 20.0 to 26.0                     |                   |                 |
| Swelling                                                                 | > 150                            | %                 | Internal Method |
| Hardness                                                                 | Nominal Value                    | Unit              | Test Method     |
| Shore Hardness (Shore D)                                                 | 62                               |                   | ISO 868         |
| Mechanical                                                               | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus - Secant (23°C)                                          | 900                              | MPa               | ISO 527-2/1     |
| Tensile Stress                                                           |                                  |                   | ISO 527-2/50    |
| Yield                                                                    | 25.0                             | MPa               |                 |
| Break                                                                    | 36.0                             | MPa               |                 |
| Tensile Strain                                                           |                                  |                   | ISO 527-2/50    |
| Yield                                                                    | 10                               | %                 |                 |
| Break                                                                    | > 800                            | %                 |                 |
| Impact                                                                   | Nominal Value                    | Unit              | Test Method     |
| Charpy Unnotched Impact Strength (23°C)                                  | 40                               | kJ/m <sup>2</sup> | ISO 179         |

| Thermal                     | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-------------|
| Brittleness Temperature     | < -80.0       | °C   | ASTM D746   |
| Vicat Softening Temperature | 80.0          | °C   | ISO 306/B50 |
| Extrusion                   | Nominal Value | Unit |             |
| Melt Temperature            | 180 to 220    | °C   |             |
| NOTE                        |               |      |             |
| 1.                          | @ 3.5 MPa     |      |             |

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