



SABIC® HDPE B5403

HIGH DENSITY POLYETHYLENE

DESCRIPTION

B5403 is a High Density Polyethylene specially developed for blow molding / Jerry cans and drums. The material offers an excellent combination of stiffness and ESCR and a high Impact resistance. This grade can be used in food contact applications.

TYPICAL APPLICATIONS

B5403 is specially designed for standard jerry cans, UN approved jerry cans, standard drums, L-ring drums for packaging of dangerous goods and UN approved open top drums. This grade can be used in food contact applications.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|----------------------------------------------------------------|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| 190°C & 21.6 kg load ⁽¹⁾ | 2.6 | g/10 min | ISO 1133 |
| Density at 23°C ⁽¹⁾ | 954 | kg/m ³ | ASTM D1505 |
| MECHANICAL PROPERTIES | | | |
| Tensile modulus ⁽²⁾ | 1200 | MPa | ASTM D638 |
| Tensile Strength at Yield | 27 | MPa | ASTM D638 |
| Tensile Strain at Yield | 8 | % | ISO 527-1/-2 |
| Tensile Impact Strength at -30°C (Notched) | 290 | kJ/m ² | ISO 8256 |
| Charpy Notched Impact Strength (-30°C, Type 1, Notch A) | 80 | kJ/m ² | ISO 179 |
| FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C) | 14 | Hrs | ISO 16770 |