

INTRODUCTION OF PETROCHEMICAL PRODUCTS

HIGH DENSITY POLYETHYLENE (H.D.P.E)

HBM 5510

BLOW MOLDING GRADE / ARIYA SASOL Pet.Co.

| DATASHEET | VALUE | UNIT | TEST CONDITIONS | TEST METHOD |
|-------------------------------|--------|-------------------|----------------------------------|-------------|
| MFI | 10 | g/10min | At 21.6Kg, 190 °C | ISO 1133 |
| MFI | 0.075 | g/10min | At 2.16Kg, 190 °C | ISO 1133 |
| Density | 0.955 | g/cm ³ | ----- | ISO 1183 |
| Bulk Density | > 0.50 | g/cm ³ | ----- | ISO 60 |
| Tensile Modulus of Elasticity | 1000 | MPa | ----- | ISO 527-1,2 |
| Flexural Modulus | 1000 | MPa | 1% Secant | ASTM D790 |
| Tensile Stress at Yield | 27 | MPa | ----- | ISO 527-1,2 |
| Tensile Strain at Yield | 8 | % | ----- | ISO 527-1,2 |
| Tensile Stress at Break | 43 | MPa | ----- | ISO 527-1,2 |
| Ball Indentation Hardness | 49 | MPa | ----- | ISO 2039-1 |
| ESCR | 110 | h | 100% Igapal, Method B | ASTM D1693 |
| Tensile Impact Strength | 135 | KJ/m ² | Notched, Type I, Method A, -30°C | ISO 8256 |
| Izod Impact Strength | 22 | KJ/m ² | Notched, Method A, 23°C | ISO 180 |
| Vicat Softening Temperature | 127 | °C | Method A/ 10N | ISO 306 |

- Manufacturer: Ariya Sasol Pet.co.
- Application: Bottle, flask, container or tank.
- Process: Blow Molding
- Features: High impact strength, good resistance to environmental stress cracking (ESCR), good stiffness.

PETRO BAMDAD AZARAN
ENGINEERING & TRADING CO

Add: No.148, Motahari St., Tehran, Iran -- Tel: +98 21 87700799 -- Email/Web:
info@petrobam.com/www.petrobam.com