

INJECTION MOULDING

HD 5740 UA

HD 5740 UA is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding of heavy-duty articles

Applications:

- *Large dustbins and pails*
- *Pallet boxes*
- *Fish crates*
- *Technical moulding*

TYPICAL PROPERTIES

| <i>Property</i> | <i>Unit</i> | <i>Method of test</i> | <i>Value</i> | |
|---|-------------------|-----------------------|--------------------|-------------------|
| | | | <i>Compression</i> | <i>Injection*</i> |
| <i>Melt flow rate(2.16Kg)</i> | g/10 min | ISO 1133 | 4 | |
| <i>Density</i> | Kg/m ³ | ISO 1183-2 | 957 | |
| <i>Tensile strength at yield(MD/TD)</i> | MPa | ISO 527 1&2 | 27/ - | 25/26 |
| <i>Elongation at break(MD/TD)</i> | % | ISO 527 1&2 | >1000/ - | 1100/140 0 |
| <i>Flexural modulus</i> | MPa | ISO 178 | 1250 | 1050 |
| <i>ESCR, F 50, 23 °C</i> | Hours | ASTM D1693A norm | >50 | 25 |
| <i>Charpy impact resistance</i> | KJ/m ² | ISO 179/A&B | 10 | 13 |

*Injection plaques - 250 °C – Injection pressure 1000b – Dwell pressure 800b – Dwell time 15s

AA: Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation