

# 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

Application:

1. Large dustbins and pails
2. Pallet boxes
3. Fish crates
4. Technical moulding

### TYPICAL PROPERTIES

Property	Unit	Method of test	Value	
			Compression	Injection*
<b>Melt flow rate(2.16Kg)</b>	g/10 min	ISO 1133	4	
<b>Density</b>	Kg/m <sup>3</sup>	ISO 1183-2	957	
<b>Tensile strength at yield(MD/TD)</b>	MPa	ISO 527 1&2	27/ -	25/26
<b>Elongation at break(MD/TD)</b>	%	ISO 527 1&2	>1000/ -	1100/1400
<b>Flexural modulus</b>	MPa	ISO 178	1250	1050
<b>ESCR, F 50, 23 °C</b>	Hours	ASTM D1693A norm	>50	25
<b>Charpy impact resistance</b>	KJ/m <sup>2</sup>	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