

# INJECTION MOULDING

## HD 6070 UA

HD 6070 UA is a high-density polyethylene grade with a narrow molecular weight distribution, suitable for a wide range of injection moulding applications.

HD 6070 UA has the following characteristics:

1. *Easy processing*
2. *High rigidity*
3. *Good impact strength*
4. *High warpage resistance*

Applications:

1. *Crates*
2. *Boxes*
3. *Seats*
4. *Pallets*

### TYPICAL PROPERTIES

Property	Unit	Method of test	Value	
			Compression	Injection*
<b>Melt flow rate(2.16Kg)</b>	g/10 min	ISO 1133	7.5	
<b>Density</b>	Kg/m <sup>3</sup>	ISO 1183-2	960	
<b>Tensile strength at yield(MD/TD)</b>	MPa	ISO 527 1&2	31/ -	26/27
<b>Elongation at break(MD/TD)</b>	%	ISO 527 1&2	>1000/ -	1100/1300
<b>Flexural modulus</b>	MPa	ISO 178	1400	1100
<b>ESCR, F 50, 23 °C</b>	Hours	ASTM D1693A norm	55	25
<b>Charpy impact resistance</b>	KJ/m <sup>2</sup>	ISO 179/A&B	6	8

\*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