

# INJECTION MOULDING

## HD 5211 EA

HD 5211 EA is an easy flow high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for thin wall injection moulding applications.

**HD 5218 EA has the following characteristics:**

- | <i>• Good flow</i>                              | <i>• Housewares</i>                  |
|---|--------------------------------------|
| <i>• High warpage resistance</i>                | <i>• Thin walled food containers</i> |
| <i>• Suitable for fast cycling applications</i> | <i>• PET bottle cup</i>              |

### 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		11
<i>Density</i>	Kg/m <sup>3</sup>	ISO 1183-2		952
<i>Tensile strength at yield(MD/TD)</i>	MPa	ISO 527 1&2	27/-	22/23
<i>Elongation at break(MD/TD)</i>	%	ISO 527 1&2	>1000/-	1100/1200
<i>Flexural modulus</i>	MPa	ISO 178	1150	950
<i>ESCR, F 50, 23 °C</i>	Hours	ASTM D1693A norm	50	25
<i>Charpy impact resistance</i>	KJ/m <sup>2</sup>	ISO 179/A&B	5	7

\*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