

# INJECTION MOULDING

## HD 5226 EA

HD 5226 EA is an easy flow high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for thin wall injection moulding applications.

**HD 5226 EA has the following characteristics:**

- *High flow*
- *High warpage resistance*
- *Suitable for very fast cycling applications*

**Applications:**

- *Housewares*
- *Thin walled food containers*
- *PET bottle cup*

### TYPICAL PROPERTIES

Property	Unit	Method of test	Value	
			Compression	Injection*
<i>Melt flow rate(2.16Kg)</i>	g/10 min	ISO 1133	26	
<i>Density</i>	Kg/m <sup>3</sup>	ISO 1183-2	953	
<i>Tensile strength at yield(MD/TD)</i>	MPa	ISO 527 1&2	27/ -	22/22
<i>Elongation at break(MD/TD)</i>	%	ISO 527 1&2	>800 / -	1000/1200
<i>Flexural modulus</i>	MPa	ISO 178	1050	900
<i>ESCR, F 50, 23 °C</i>	Hours	ASTM D1693A norm	1.5	
<i>Charpy impact resistance</i>	KJ/m <sup>2</sup>	ISO 179/A&B	4	4

\*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