

**HD -I3**  
**License Grade Code HC 7260(THE)**

**1) Product Description :**

“I3” is a high density polyethylene with 1-Butene as co monomer .It is rigid, low warpage, good flowability, high density, hardness and stiffness, good impact strength good stress cracking resistance.

**2) Applications:**

- Injection moulding
- Crates
- Engineering parts
- Closures

**3) Typical data**

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23oC)	ISO 1183	g/cm <sup>3</sup>	0.957
Melt Flow Rate (190oC/2.16kg)	ISO 1133	g/10min	8
Melt Flow Rate (190oC/5 kg)	ISO 1133	g/10min	23
Stress at Yield	ISO 527	MPa	29
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	MPa	1550
Tensile Modulus (23oC, v = 1mm/min,Secant)	ISO 527	MPa	1350
Stress at Break	ISO 527	MPa	30
Elongation at Break	ISO 527	%	>1000
Elongation at yield	ISO 527	%	10
Softening Temperature	ISO 306	oC	72
Brittle Temperature	ASTM D746-72	oC	< - 80
Shore D hardness	ISO 868	-	64
ESCR in Full Notch Creep Test (80oC, 2% Arcopal )	ISO CD 16770	h@2.5 MPa	1.5
Impact strength (23oC)	ISO 179/1eA	Kj/m <sup>2</sup>	2.5

\* Typical Values : not to be construed as specifications

**4)Process condition:**

Recommended injection molding temperature : 200 - 280 °C

Producer: Marun Petrochemical Co.

Licensor: Basell Packing: 25 Kg plastic bag