



NAME: HD -I3

Product Description:

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

Applications:

Injection moulding, Crates, Engineering parts, Closures

Typical data: (Table)

PROPERTY	METHOD	UNIT	VALUE*
Mass density (23°C)	ISO 1183	g/cm ³	0.957
Melt Flow Rate (190°C/2.16kg)	ISO 1133	g/10min	8
Melt Flow Rate (190°C/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 (23°C, 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	°C	72
Brittle Temperature	ASTM D746-72	°C	< - 80
Shore D hardness	ISO 868	-	64
ESCR in Full Notch Creep Test (80°C, 2% Arcopal)	ISO CD 16770	h@2.5 MPa	1.5
Impact strength (23°C)	ISO 179/1eA	Kj/m2	2.5

* Typical Values: not to be construed as specifications.

Recommended injection molding temperature: 200 - 280 °C

Packing: 25 Kg plastic bag