



HD-I3

License Grade Code HC 7260(THE)

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.

Applications:

- Injection moulding
- Crates
- Engineering parts
- Closures



Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23 C)	ISO 1183	g/cm3	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
FRR(21.6/5)		-	2.8
Impact strength (23 C)	ISO 179/1eA	kJ/mm2	2.5
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%Arcoopal)	ISO CD 16770	h@2.5 Mpa	1.5
volatiles	ASTM D1023-94	%WT	≤0.3
contamination	-	RATING	≤2

- ① Typical value not to be constructed as specifications.
- ② Recommended injection moulding temp. 200-280 c