



HD-I4

License Grade Code HD 7255(THE)

Product Description:

“I4” is a high density polyethylene with 1-Butene as co monomer. It is high rigidity, good toughness, low warpage, high impact strength.

Applications:

- Injection moulding
- Engineering Leisure & sport equipment



Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23 C)	ISO 1183	g/cm3	0.954
Melt Flow Rate (190 C/2.16kg)	ISO 1133	g/10min	4
Melt Flow Rate (190 C/5.0kg)	ISO 1133	g/10min	11
FRR(5/2.16)		-	2.8
Impact strength (23 C)	ISO 179/1eA	mj/mm2	3
Stress at Yield	ISO 527	Mpa	26
Flextural Creep Modulus (4point, 1min)	DIN 19537-2	Mpa	1300
Tensile Modulus (23 C, v=1mm/min, secant)	ISO 527	Mpa	1100
Stress at Break	ISO 527	Mpa	30
Elongation at Break	ISO 527	%	>1000
Elongation at Yield	ISO 527	%	10
Softening Temperature	ISO 306	C	70
Brittle Temperature	ASTM D746-72	C	<-80
shore D hardness	ISO 868		62
ESCR in full notch creep test (80 C, 2%Arcopal)	ISO CD 16770	h@2.5 Mpa	3
volatiles	ASTM D1023-94	%WT	≤0.3
contamination	-	RATING	≤2

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