Braskem Idesa

Datasheet
(January, 2026)

High Density Polyethylene HDI0861U1

Description:

HDI0861U1 resin is a high density polyethylene with a narrow molecular weight distribution, developed for injection molding. Parts manufactured from this material exhibit an excellent surface finishing, good impact resistance and stiffness. This resin contains UV stabilizing additives.

Applications:

Trays, plastic containers, boxes

Processes:

Injection molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	g/10 min	8.50
Density	ASTM D792	g/cm³	0.961

Typical Properties[1]

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D638	MPa	30
Tensile Strength at Break	ASTM D638	MPa	21
Strain at Yield	ASTM D638	%	6
Strain at Break	ASTM D638	%	880
Elasticity Modulus (Secant 1%)	ASTM D638	MPa	1470
Flexural Modulus (Secant 1%)	ASTM D790	MPa	1490
Izod Impact Strength[3]	ASTM D256/A	J/m	45
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	75
Vicat Softening Point (10 N)	ASTM D1525	°C	130
Hardness Shore D	ASTM D 2240	-	65
ESCR (100% Igepal)[2]	ASTM D 1693	h	3

[1] Test specimens from compression molded plaque according to ASTM D4703.

[2] Condition B.

[3] Test temperature at 23°C.

Final Remarks

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