

## High Density Polyethylene HDI0653U1

### Description:

HDI0653U1 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, stiffness and excellent tone. This resin contains UV light stabilizing additives.

### Applications:

Containers, buckets

### Processes:

Injection molding

### Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	g/10 min	6.20
Density	ASTM D792	g/cm <sup>3</sup>	0.953

### Typical Properties<sup>1</sup>

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D638	MPa	25
Tensile Strength at Break	ASTM D638	MPa	29
Strain at Yield	ASTM D638	%	7
Strain at Break	ASTM D638	%	925
Elasticity Modulus (Secant 1%)	ASTM D638	MPa	1230
Flexural Modulus (Secant 1%)	ASTM D790	MPa	1250
Izod Impact Strength <sup>3</sup>	ASTM D790	J/m	49
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	68
Vicat Softening Point (10 N)	ASTM D1525	°C	127
ESCR (100% Igepal) <sup>2</sup>	ASTM D 1693	h	5

<sup>1</sup> Test specimens from compression molded plaque according to ASTM D4703.

<sup>2</sup> Condition B.

<sup>3</sup> Test temperature at 23°C.

### Final Remarks

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