

*Wir bringen Ihre Idee in Form!*

injection moulding resin



# LDPE 780E

## Polyethylene Resin

Melt Index:	20.0
Density:	0.923

LDPE 780E Low Density Polyethylene Resin can be readily processed using conventional injection moulding techniques utilising melt temperatures between 140 and 250°C, a mould temperature between 10 and 50°C, and injection pressure between 50 and 150 MPa. When properly injection moulded.

LDPE 780E Low Density Polyethylene Resin exhibit:

- Excellent flow.
- Good rigidity
- Good surface gloss

**Note:**  
LDPE 780E Low Density Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for

food contact applications.

Please, contact your nearest Dow office for food contact compliance statements.

The purchaser remains responsible for determining whether the use complies with all relevant regulations.

**Applications:**

- Housewares.
- Toys & leisures.
- Containers.
- Compounding.

Physical Properties	Unit	Test Method	Values
Melt Index, 190 °C/2.10 kg	g/10 min	ISO 1133	20.0
Density	g/cm <sup>3</sup>	ASTM D-792	0.923
Vicat Softening Point	°C	ASTM D-1525	93
Mechanical Properties	Unit	Test Method	Values
Hardness, Shore D		ISO 868	49
Tensile Yield	MPa	ISO 527-2	8.2
Ultimate Tensile	MPa	ISO 527-2	10.5
Ultimate Elongation	%	ISO 527-2	50
Tensile Modulus, 2% Secant	MPa	ISO 527-2	184
Tensile Impact	kJ/m <sup>2</sup>	ISO 8256	286
ESCR	h	ASTM D-1693	1.4
Rheological Properties	Unit	Test Method	Values
Spiral Flow Length 600 bar/1200 bar	mm	Dow Method	49/85
Shrinkage	%	MD	2.3
		CD	1.5

(1) Typical values not to be used as specifications limits.  
(2) Compression moulded samples