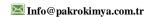
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DOW™ LDPE 78 Low Density Polyethylene Resin

Overview

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, 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 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		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density		0.923	g/cm³	0.923	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)		20	g/10 min	20	g/10 min	ISO 1133
Molding Shrinkage						ASTM D955
Flow		0.023	in/in	2.3	%	
Across Flow		0.015	in/in	1.5	%	
Environmental Stress-Cracking	Resistance				-	ASTM D1693
Compression Molded		1.40	hr	1.40	hr	
Spiral Flow Length	1					Dow Method
1200 bar		3.3	in	8.50	cm	
600 bar		1.9	in	4.90	cm	
Mechanical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Modulus - 2% Secant (Compression Molded)		23800	psi	164	MPa	ISO 527-2
Tensile Stress						ISO 527-2
Yield, Compression Molded		1190	psi	8.20	MPa	
Break, Compression Molded		1520	psi	10.5	MPa	
Tensile Strain (Break, Compres	sion Molded)	50	%	50	%	ISO 527-2
Films		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Elongation				A		ASTM D882
MD: Break, 7.9 mil (200 μm)		700	%	700	%	
TD: Break, 7.9 mil (200 µm)		750	%	750	%	
Impact		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Impact Strength		136	ft·lb/in²	286	kJ/m²	ISO 8256
Hardness		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Shore Hardness (Shore D)		49		49		ISO 868
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Vicat Softening Temperature		199	°F	93.0	°C	ASTM D1525

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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- c. use as a critical component in medical devices that support or sustain human life; or
- d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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