# DOW™ LDPE 780E

## Low Density Polyethylene Resin

### The Dow Chemical Company

#### Message:

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.

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	20	g/10 min	ISO 1133
Spiral Flow			Internal Method
1	4.90	cm	
2	8.50	cm	
Molding Shrinkage			ASTM D955
Flow	2.3	%	
Across Flow	1.5	%	
Environmental Stress-Cracking Resistance			
(Compression Molded)	1.40	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	49		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant			
(Compression Molded)	164	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, Compression Molded	8.20	MPa	
Break, Compression Molded	10.5	MPa	
Tensile Strain (Break, Compression			
Molded)	50	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Tensile Elongation			ASTM D882

MD : Break, 200 µm	700	%	
TD : Break, 200 μm	750	%	
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	286	kJ/m²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.0	°C	ASTM D1525
NOTE			
1.	Injection Pressure: 600 bar		
2.	Injection Pressure: 1.20E+3 bar		

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