# DOWLEX<sup>™</sup> 2552E

# Polyethylene Resin

## The Dow Chemical Company

#### Message:

DOWLEX<sup>™</sup> 2552E Polyethylene Resin is specifically designed to exhibit excellent low temperature flexibility and impact resistance with outstanding stress crack resistance in injection moulded parts. DOWLEX 2552E Polyethylene Resin injection mouldings also offer excellent toughness, dimensional stability and a high gloss.

Note: DOWLEX 2552E 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.

Lids.

Toys.

Winter sports articles.

Industrial caps and closures.

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	0.920	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25	g/10 min	ISO 1133
Spiral Flow	109	cm	Internal Method
Molding Shrinkage - Flow	2.4	%	ASTM D955
Environmental Stress-Cracking Resistance 2			ASTM D1693
50°C, 100% Antarox, Compression Molded	6.70	hr	
50°C, 100% Antarox, Injection Molded	1.20	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant			ASTM D638
Compression Molded	256	MPa	
Injection Molded	155	MPa	
Tensile Strength			ASTM D638
Yield, Compression Molded	12.0	MPa	
Yield, Injection Molded	7.10	MPa	
Break, Injection Molded	> 11.6	MPa	
Tensile Elongation (Break, Injection Molded)	> 870	%	ASTM D638

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	No Break		ASTM D256
-40°C, Injection Molded	90	kJ/m²	ASTM D256
23°C, Injection Molded	No Break		ASTM D256
Tensile Impact Strength (Compression Molded)	105	kJ/m²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ASTM D1525
NOTE			
1.	220°C, 3 mm channel depth, constant injection pressure, mould temperature 15°C.		
2.	Notched		

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