



# DOWLEX™ NG 2429.01G

## Polyethylene Resin

### Overview

- Intermediate bulk containers
- Drums for chemicals
- Boats, freezer containers, fish crates and tanks
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a
- Consult the regulations for complete details.

DOWLEX™ NG 2429.01G Polyethylene Resin is an ethylene octene copolymer for rotational moulding and is specifically designed for applications requiring excellent environmental stress crack resistance and impact strength combined with low warpage and good processing. DOWLEX NG 2429.01G is fully heat and UV stabilized resulting in a wide processing latitude, good colour retention, and long life expectancy.

### Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm <sup>3</sup>	0.935 g/cm <sup>3</sup>	ISO 1183
Melt Index (190°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
122°F (50°C), 10% AntaroX, Rotational Molded <sup>1</sup>	400 hr	400 hr	
122°F (50°C), 100% AntaroX, Compression Molded	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	2470 psi	17.0 MPa	
Yield, Rotational Molded <sup>1</sup>	2470 psi	17.0 MPa	
Break, Compression Molded	3580 psi	24.7 MPa	
Break, Rotational Molded <sup>1</sup>	3160 psi	21.8 MPa	
Tensile Strain			ISO 527-2
Break, Compression Molded	800 %	800 %	
Break, Rotational Molded <sup>1</sup>	700 %	700 %	
Flexural Modulus - 1% Secant (Compression Molded)	92800 psi	640 MPa	ISO 178
Tear Resistance			DIN 53515
... <sup>2</sup>	20305 psi	140 MPa	
Compression Molded	21030 psi	145 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-4°F (-20°C), 0.0394 in (1.00 mm), Compression Molded	17.0 ft·lb	23.0 J	
73°F (23°C), Rotational Molded <sup>1</sup>	12.5 ft·lb	17.0 J	
73°F (23°C), 0.0394 in (1.00 mm), Compression Molded	12.5 ft·lb	17.0 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D, Compression Molded)	57	57	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	102 °F	38.9 °C	
Vicat Softening Temperature	244 °F	118 °C	ISO 306/A120
Melting Temperature	257 °F	125 °C	DSC
Peak Crystallization Temperature (DSC)	221 °F	105 °C	DSC

**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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<sup>1</sup> 3 to 4 mm plate thickness

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<sup>2</sup> Rotational Molded, 3 to 4 mm plate thickness

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This document is intended for use within Asia Pacific

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