

DOWLEX™ NG 2429.01G

Polyethylene Resin

The Dow Chemical Company

Message:

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.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% AntaroX, Rotational Molded ¹	400	hr	
50°C, 100% AntaroX, Compression Molded	> 1000	hr	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	57		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	17.0	MPa	
Yield, Rotational Molded ²	17.0	MPa	
Break, Compression Molded	24.7	MPa	
Break, Rotational Molded ³	21.8	MPa	
Tensile Strain			ISO 527-2
Break, Compression Molded	800	%	
Break, Rotational Molded ⁴	700	%	
Flexural Modulus - 1% Secant (Compression Molded)	640	MPa	ISO 178
Tear Resistance			DIN 53515
-- ⁵	140	MPa	
Compression Molded	145	MPa	
Impact	Nominal Value	Unit	Test Method
Multi-Axial Instrumented Impact Energy			ISO 6603-2

-20°C, 1.00 mm, Compression Molded	23.0	J	
23°C, Rotational Molded ⁶	17.0	J	
23°C, 1.00 mm, Compression Molded	17.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	38.9	°C	ISO 75-2/A
Vicat Softening Temperature	118	°C	ISO 306/A120
Melting Temperature	125	°C	DSC
Peak Crystallization Temperature (DSC)	105	°C	DSC
NOTE			
1.	3 to 4 mm plate thickness		
2.	3 to 4 mm plate thickness		
3.	3 to 4 mm plate thickness		
4.	3 to 4 mm plate thickness		
5.	Rotational Molded, 3 to 4 mm plate thickness		
6.	3 to 4 mm plate thickness		

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