

DOW™ MDPE DPDA-3152 NT 7

Medium Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ DPDA-3152 NT 7 Medium Density Polyethylene (MDPE) Resin is produced via UNIPOL™ Process Technology from Dow and is intended for rotational and injection molding. It is specifically designed for applications requiring excellent processability and aesthetics combined with low warpage and good mechanical properties.

Processing and Stabilization: DOW DPDA-3152 NT 7 MDPE Resin is fully heat and UV stabilized resulting in a wide processing latitude, good color retention and long life expectancy.

Rotational molding or injection molding

For intermediate bulk containers, toys, general purpose custom molding, agricultural storage tanks, water tanks, marine parts, indoor consumer articles

Excellent impact strength, stress crack resistance and processability

Long term UV stabilization: UV-8 stabilizer package

Complies with:

U.S. FDA 21 CFR 177.1520 (c)3.1a

Canadian HPFB No Objection

Underwriters Laboratories, Inc.

NSF International NSF/ANSI Std 61 (sec 4 & 5)

Consult the regulations for complete details.

General Information			
UL YellowCard	E337483-100711921		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	HPFB (Canada) No Objection		
	NSF 61		
	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.935	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.2	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹			ASTM D1693
50°C, 10% Igepal, F50	> 982	hr	
50°C, 100% Igepal, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	18.8	MPa	ASTM D638
Flexural Modulus - 1% Secant ³	655	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.18 mm, Rotational Molded	80	J	

-40°C, 6.35 mm, Rotational Molded	255	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴			ASTM D648
0.45 MPa, Unannealed	51.7	°C	
1.8 MPa, Unannealed	35.0	°C	
Melting Temperature (DSC)	125	°C	Internal Method
NOTE			

1. Plaque molded and tested in accordance with ASTM D4976.

2. Plaque molded and tested in accordance with ASTM D4976.

3. Plaque molded and tested in accordance with ASTM D4976.

4. Plaque molded and tested in accordance with ASTM D4976.

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