DOW™ HDPE 04852N

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW HDPE 04852N High Density Polyethylene Resin (HDPE) is a narrow molecular weight distribution copolymer designed to offer excellent impact strength and toughness combined with good stiffness. This resin has good processability over a wide range of molding conditions. It is intended for use in injection molding applications such as pails, industrial parts and other shipping containers; it can also be used for structural foamed parts.
Excellent impact strength and toughness
Good stiffness
For injection molded pails, industrial parts, shipping containers and structural foamed parts.
Complies with:
U.S. FDA 21 CFR 177.1520(c)3.2a
Consult the regulation for complete details.
Additive:
Antiblock: No
Slip: No
Processing Aid: No

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.952	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1] (50°C, 100% Igepal, F50)	22.0	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2]			ASTM D638
Yield	26.9	MPa	ASTM D638
Fracture	31.0	MPa	ASTM D638
Tensile Elongation [3]			ASTM D638
Yield	10	%	ASTM D638
Fracture	1200	%	ASTM D638
Flexural Modulus [4]	1100	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength	94.6	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [5]	< -76.1	°C	ASTM D746
Vicat Softening Temperature	130	°C	ASTM D1525
Melting Temperature (DSC)	131	°C	Internal method
Peak Crystallization Temperature (DSC)	119	°C	Internal method
Additional Information			
Plaque molded and tested in accordance with ASTM D 4976.			

NOTE	
1.	Molded and tested in accordance with ASTM D4976
2.	Molded and tested in accordance with ASTM D4976.
3.	Molded and tested in accordance with ASTM D4976.
4.	Molded and tested in accordance with ASTM D4976.
5.	Molded and tested in accordance with ASTM D4976.

Recommended distributors for this material

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