



DOW™ HDPE 08454N

High Density Polyethylene Resin

Overview

DOW HDPE 08454N Resin is a narrow molecular weight distribution copolymer designed to offer excellent impact strength and toughness with good stiffness. This resin has good processability over a wide range of molding conditions.

- For structural foams, industrial containers, cases/crates
- Excellent impact strength, toughness and good stiffness

Complies with:

- Canadian HPFB No Objection (With Limitations)
- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520 (c) 3.2a
- U.S. FDA-DMF
- U.S. USP

Consult the regulations for complete details.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.952 g/cm ³	0.952 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	7.0 g/10 min	7.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 2% Secant	97000 psi	669 MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	3000 psi	20.7 MPa	
Break	2400 psi	16.5 MPa	
Tensile Elongation (Break)	700 %	700 %	ASTM D638
Flexural Modulus	146000 psi	1010 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-58°F (-50°C)	1.2 ft-lb/in	64 J/m	
73°F (23°C)	2.3 ft-lb/in	120 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	256 °F	124 °C	ASTM D1525
Melting Temperature (DSC)	269 °F	132 °C	Dow Method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

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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