DOW™ HDPE 05962B

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW HDPE 05962B is a High Density Polyethylene produced via SOLUTION™ technology. This resin presents a narrow molecular weight distribution that offers excellent impact resistance in rigid packaging, high gloss, excellent stiffness and processability.
Main Characteristics
Resin for Injection Molding
Pails and Crates
Resin for Cast film
Film for diapers, femine hygiene
Complies with:
U.S. FDA 21 CFR 177.1520 (c) 3.1a
EU, No 10/2011
Consult the regulations for complete details

General Information			
Agency Ratings	EU No 10/2011 FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.958	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded)	44.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, Compression Molded	29.0	MPa	
Break, Compression Molded	25.0	MPa	
Tensile Elongation (Break, Compression Molded)	2400	%	ASTM D638
Flexural Modulus (Compression Molded)	110	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	24	µm	
Film Puncture Resistance (24 µm)	3.31	J/cm³	Internal Method
Secant Modulus			ASTM D882
2% Secant, MD : 24 µm	472	MPa	
2% Secant, TD : 24 µm	672	MPa	
Tensile Strength			ASTM D882

MD : Yield,24 µm	27.0	MPa	
TD : Yield,24 µm	28.0	MPa	
MD : Break, 24 µm	36.0	MPa	
TD : Break, 24 µm	28.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 24 µm	600	%	
TD : Break, 24 µm	650	%	
Dart Drop Impact (24 µm)	8.0	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 24 µm	40	g	
TD : 24 µm	120	g	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	25	J/m	ASTM D256
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 24.0 µm)	85		ASTM D2457
Haze (24.0 µm)	6.0	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	268	°C	

Recommended distributors for this material

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