DOW™ HDPE DGDB-5004 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW DGDB-5004 NT 7 High Density Polyethylene (HDPE) resin is a multi-purpose polymer designed for sheet extrusion and thermoforming applications, including single-serve disposables and other thin walled containers including food service such as cups, plates, bowls and refrigerated dairy containers.
Main Characteristics:
Maximum rigidity
Excellent color consistency
High Melt Strength
High Impact Strength including low temperature toughness
Good Top Load Strength
Optimized Shear Rheology for Good Processability
Complies with:
U.S. FDA 21 CFR 177.1520 (c) 2.2
Canadian HPFB No Objection
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2 HPFB (Canada) No Objection		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.961	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.80	g/10 min	ASTM D1238
190°C/21.6 kg	57	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	31.7	MPa	ASTM D638
Fracture	24.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	1000	%	ASTM D638
Flexural Modulus - 2% Secant	1300	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [1]	84.1	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.1	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746

Vicat Softening Temperature	131	°C	ASTM D1525
Melting Temperature (DSC)	133	°C	Internal method
Peak Crystallization Temperature (DSC)	120	°C	Internal method

Additional Information
Plaque molded and tested in accordance with ASTM D 4976.

NOTE	
1.	Type s

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

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