



**DOW**<sup>®</sup>

## Product portfolio for injection molded lid applications

The following pages provide an overview of Dow's product offering for injection molded lid applications.

Our diverse portfolio features proven materials that can enable an incredible list of options, including excellent flexibility, durability, lightweighting/downgauging, impact and environmental stress crack resistance (ESCR), high cavitation, structural foam, transparency and more.

The result is high-performing lids for applications ranging from thin-wall containers and frozen food packaging to heavy-duty industrial totes and pails – as well as virtually everything in between. All made possible by an outstanding selection of recyclable polyethylene resins that features:

- Linear low density polyethylene (LLDPE)
- Low density polyethylene (LDPE)
- Medium density polyethylene (MDPE)
- High density polyethylene (HDPE)

If you don't see what you're looking for here, please visit [dow.com](http://dow.com) or contact a Dow representative. We're always interested in collaborating to develop exciting new solutions.

# Dow products for injection molded lids

**Table 1:** Polyethylene resins for injection molded lid applications<sup>(1)</sup>

Injection Molded Lid Product	Melt Index – I2 (g/10 min.) <sup>(2)</sup>	Density (g/cc) <sup>(3)</sup>	Tensile Strength @ Yield (psi) <sup>(4)</sup>	2% Secant Flexural Modulus (psi) <sup>(5)</sup>	FDA Compliance – U.S. FDA 21 CFR 177.1520 <sup>(6)</sup>	ESCR (122°F, 100% Igepal, F50) (hours) <sup>(7)</sup>	Tensile Elongation @ Yield (%) <sup>(8)</sup>	Vicat Softening Temp. (°F) <sup>(9)</sup>	Typical Applications/Key Attributes
DOW™ LLDPE DNDA-7144 NT7 Linear Low Density Polyethylene Resin	20	0.924	1,700	56,000	3.1a	20	3	201	Food storage; low density-low melt index; tough, flexible performance properties
DOWLEX™ 2517 Linear Low Density Polyethylene Resin	25	0.917	1,400	34,000	3.1b	4	3	197	Very flexible, durable food storage lids; low density-low melt index; tough, flexible performance properties
DOW™ LLDPE DNDB-7147 NT7 Linear Low Density Polyethylene Resin	50	0.926	1,400	61,000	3.1a	5	3	194	Frozen foods and ESCR; density/melt index balanced for moldability, impact and ESCR performance
DOW™ LLDPE DNDA-1055 NT7 Linear Low Density Polyethylene Resin	85	0.930	1,500	68,000	3.1a	3	2.5	—	Frozen foods and ESCR; designed for injection molded skirts for composite (board-stock panel) ice cream lids
DOW™ LLDPE DNDB-1077 NT7 Linear Low Density Polyethylene Resin	100	0.929	1,600	76,000	3.1a	<1	2	205	Low temperature impact; higher alpha-olefin comonomer; leverage higher melt index while maintaining property performance
DOW™ LLDPE DNDA-1081 NT7 Linear Low Density Polyethylene Resin	125	0.931	1,600	76,000	3.1a	—	2	207	High cavitation molds; low density-low melt index; tough, flexible performance properties
DOW™ LLDPE DNDA-1082 NT7 Linear Low Density Polyethylene Resin	155	0.933	2,400	83,000	3.1a	—	8	252	Lightweight, downgauged lids; higher alpha-olefin comonomer; leverage higher melt index while maintaining property performance
DOW™ HDPE DMDA-8907 High Density Polyethylene Resin	6.8	0.852	3,900	155,000	3.2a	12	7	262	Containers, pails and lids; general purpose
DOW™ HDPE DMDA-8910 NT 7 High Density Polyethylene Resin	10	0.945	3,500	124,000	3.2a	12	9	254	Caps and closures; general purpose
DOW™ HDPE 12450N High Density Polyethylene Resin	12	0.950	3,400	117,000	3.2a	6	3	261	Structural foam, tote boxes and industrial containers; general purpose
DOW™ HDPE 17450N High Density Polyethylene Resin	17	0.950	3,300	114,000	3.1a	3	3	259	Housewares; general purpose
DOW™ HDPE DMDA-8920 NT 7 High Density Polyethylene Resin	20	0.954	4,100	167,000	3.2a	3	7	261	Ice cream containers; thin-wall pails; general purpose
DOW™ HDPE 25455N High Density Polyethylene Resin	25	0.955	3,700	136,000	3.1a	1	6	262	Pails; thin-wall parts; general purpose
DOW™ HDPE DMDA-8933 High Density Polyethylene Resin	33	0.950	3,900	145,000	3.2a	—	—	—	Containers; general purpose
DOWLEX™ IP-40 High Density Polyethylene Resin	40	0.952	3,700	145,000	3.2a	—	3	255	High-flow thin-wall molds; general purpose
DOWLEX™ IP-41 High Density Polyethylene Resin	42	0.956	4,200	162,000	3.2a	—	5	259	Pails; general purpose
DOW™ HDPE DMDA-8940 NT 7 High Density Polyethylene Resin	44	0.951	3,900	148,000	3.2a	—	5	253	Ice cream and other thin-wall parts; general purpose
DOW™ HDPE DMDA-8950 NT 7 High Density Polyethylene Resin	50	0.942	3,030	83,500	3.2a	6	9	—	High cavitation molds; frozen food parts; general purpose
DOW™ HDPE DMDA-8965 NT 7 High Density Polyethylene Resin	65	0.952	2,500	145,000	3.2a	—	1	252	High cavitation molds; thin-wall parts; general purpose
DOW™ MDPE DMDA-8962 NT 7 Medium Density Polyethylene Resin	62	0.942	3,000	83,000	3.2a	6	9	—	High cavitation molds; frozen food parts; general purpose
DOW™ LDPE 993I Low Density Polyethylene Resin	25	0.923	1,500	46,000	2.1	<1	3	199	Lids, caps and closures; general purpose
DOW™ LDPE 955I Low Density Polyethylene Resin	35	0.923	1,400	43,000	2.1	<1	4	203	High clarity lids; general purpose
DOW™ LDPE 959S Low Density Polyethylene Resin	55	0.923	1,600	48,000	2.1	<1	3	194	Caps and closures; general purpose
DOW™ LDPE 722 Low Density Polyethylene Resin	8	0.918	1,200	34,000	2.2	<1	4	190	Caps and closures; general purpose

<sup>(1)</sup>These are typical properties, not to be construed as specifications. <sup>(2)</sup>ASTM D1238 (190°C/2.16 kg) <sup>(3)</sup>ASTM D792 <sup>(4)</sup>ASTM D638, molded and tested in accordance with ASTM D4976

<sup>(5)</sup>ASTM D790B, molded and tested in accordance with ASTM D4976 <sup>(6)</sup>Consult the regulations for complete details. <sup>(7)</sup>ASTM D1693 <sup>(8)</sup>ASTM D638 <sup>(9)</sup>ASTM D1525

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