



DOW[®]



Product portfolio for medical tubing applications

Dow's portfolio of high-quality materials for medical tubing features **ELVAX™ Ethylene Vinyl Acetate Copolymers (EVAs)**, **ENGAGE™ Polyolefin Elastomers (POEs)**, and select grades of **DOW™ HEALTH+™ Polymers** – as well as other olefin-based resins that are well-suited for a diverse range of medical tubing applications.

Bring us your opportunities

The table on the following page provides an overview of our offerings for IV lines, respiratory equipment, catheters, biopharmaceutical processing, and much more.

If you don't see what you're looking for here, please feel free to ask. We thrive on working closely with our customers to develop innovative answers to specific performance and processing challenges. Let's talk about how we can help!

Dow products for medical tubing

Table 1: Polymers for Medical Tubing Applications

Chemistry ⁽¹⁾	Product	Melt Index – 190°C/2.16 kg (g/10 min) ⁽²⁾	Density (g/cc) ⁽²⁾	Durometer Hardness ⁽²⁾	Drug Master File (DMF)	Regulatory Approval	Typical Application(s)
EVA	ELVAX™ 760 Ethylene Vinyl Acetate Copolymer (9.3% VA)	2	0.930	–	–	Pending	Tubing
EVA	ELVAX™ 3130 Ethylene Vinyl Acetate Copolymer (12% VA)	2.5	0.930	–	4502	USP Class VI	Tubing
EVA	ELVAX™ 3182-2 Ethylene Vinyl Acetate Copolymer (28% VA)	3	0.950	–	4502	USP Class VI	Tubing, Bioprocessing
EVA	ELVAX™ 260 Ethylene Vinyl Acetate Copolymer (28% VA)	6	0.955	–	–	Pending	Tubing, Catheter
HDPE	DOW™ HDPE 25455N High Density Polyethylene Resin	25	0.955	Shore D 59	22316	USP Class VI	Tubing Connector
LDPE	DOW™ 20 HEALTH+™ Ultra-Pure Polyethylene	1.9	0.920	–	1528	USP <661.1>	Tubing, IV, Respiratory
LDPE	DOW™ LDPE 690 HEALTH+™ Low Density Polyethylene Resin	2.0	0.920	Shore D 45	1725	USP Class VI USP <661.1>	Tubing, Mount
LLDPE	DOW™ LLDPE DNDB-7441 NT 7 Linear Low Density Polyethylene Resin	0.6	0.918	Shore D 44	–	–	Tubing
LLDPE	DOW™ LLDPE DFDA-7047 NT 7 Linear Low Density Polyethylene Resin	1.0	0.918	–	–	–	Tubing
POE	ENGAGE™ 8100 Polyolefin Elastomer	1.0	0.870	Shore A 73 Shore D 22	4251	USP Class VI	Tubing
POE	ENGAGE™ 8411 Polyolefin Elastomer	18	0.880	Shore A 81 Shore D 27	4251	USP Class VI	Tubing
POE	ENGAGE™ 8003 Polyolefin Elastomer	1.0	0.885	Shore A 84 Shore D 31	4251	USP Class VI USP <661.1>	Tubing, Modifier
POE	ENGAGE™ 8440G Polyolefin Elastomer	1.6	0.897	Shore A 86 Shore D 36	4251	USP Class VI ISO 10993-5 - Cytotoxicity ISO 10993-10 - Irritation/ Sensitization	Tubing, Respiratory
POE	ENGAGE™ 8450 Polyolefin Elastomer	3.0	0.902	Shore A 90 Shore D 41	4251	USP <661.1> ISO 10993-5 - Cytotoxicity	Respiratory
POE	ENGAGE™ 8402 Polyolefin Elastomer	30	0.902	Shore A 88 Shore D 34	4251	USP Class VI	Tubing, Parts
POE	ENGAGE™ 8540 Polyolefin Elastomer	1.0	0.909	Shore A 90 Shore D 47	4251	USP Class VI	Respiratory
POP	AFFINITY™ PF 1140G Polyolefin Plastomer	1.6	0.897	Shore A 86	4251	–	Tubing
POP	AFFINITY™ PL 1850G Polyolefin Plastomer	3.0	0.902	Shore A 90 Shore D 41	4251	USP Class VI ISO 10993-4 – Hemolysis ISO 10993-5 – Cytotoxicity	Respiratory
Tie Layer	BYNEL™ 41E710 Adhesive Resin	2.7	0.922	–	4502	–	Tubing, Tie
Tie Layer	BYNEL™ 21E810 Adhesive Resin	2.2	0.940	–	4502	–	Tubing, Tie

⁽¹⁾ Legend: EVA = Ethylene Vinyl Acetate, HDPE = High Density Polyethylene, LDPE = Low Density Polyethylene, LLDPE = Linear Low Density Polyethylene, POE = Polyolefin Elastomer, POP = Polyolefin Plastomer

⁽²⁾ These are typical properties, not to be construed as specifications.

Please visit www.dow.com/en-us/support/product-safety.html for the most current safety and policy information.

We're excited about exploring your medical tubing opportunities together. Please contact your Dow representative or visit www.dow.com/contact to get the conversation started.

For more information about Dow, visit www.dow.com/about. To contact a Dow representative, visit www.dow.com/contact.

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