

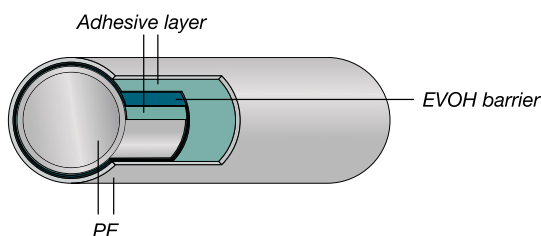


BYNEL™ 4157 Adhesive Resin for multilayer plastic pipes

Main characteristics

Dow is a leading global supplier of tie resins for a large variety of multilayer structures in flexible and rigid applications.

BYNEL™ 4157 Adhesive Resin is an anhydride-modified, linear low density (LLDPE) based polymer, suitable for coextrusion of polyethylene/ethylene vinyl alcohol (PE/EVOH) multilayer plastic pipes. Typical PE pipe resins include DOWLEX™ PE-RT (Dow Polyethylene of Raised Temperature Resistance) as well as crosslinked PE.



Key applications

- Pipes for hot and cold water systems
- Surface heating or cooling, incl. underfloor heating pipes and wall heating pipes
- Heating and cooling applications

Processing and compliance with pipe standards

BYNEL™ 4157 is available in pellet form for use in conventional pipe coextrusion equipment designed to process polyethylene resins. For further information, see our Technical Datasheet.

Plastic pipes produced with DOWLEX™ 2388 PE-RT and BYNEL™ 4157 tie layer passed the thermocycling test, application class 5, required by ISO 21003-5: 2018 – Multilayer piping systems for hot and cold water installations inside buildings — Part 5: Fitness for purpose of the system.

Dow: commitment to plastic pipes

Dow has many decades of experience in the pipe industry and works with the world's leading pipe extruders and specifiers to develop superior pipe products. It operates pipe technology R&D centers around the world and is constantly working to improve existing resins and develop new materials that help piping systems of all kinds operate at maximum performance.



BYNEL™ 4157 key properties*

Property	Nominal value	Test methods
Melt Index, 190 °C/2.16 kg	3.0 g/10 min	ASTM D1238, ISO 1133
Density	0.92 g/cm ³	ASTM D792, ISO 1183
Melting Point (DSC)	127 °C	ASTM D3418, ISO 3164
Vicat Softening Point	93 °C	ASTM D1525, ISO 306

* These are typical properties only and are not to be regarded as sales specifications.

About Dow

Dow (NYSE: DOW) combines global breadth, asset integration and scale, focused innovation and leading business positions to achieve profitable growth. The Company's ambition is to become the most innovative, customer centric, inclusive and sustainable materials science company, with a purpose to deliver a sustainable future for the world through our materials science expertise and collaboration with our partners. Dow's portfolio of plastics, industrial intermediates, coatings and silicones businesses delivers a broad range of differentiated science-based products and solutions for its customers in high-growth market segments, such as packaging, infrastructure, mobility and consumer care. Dow operates 106 manufacturing sites in 31 countries and employs approximately 35,700 people. Dow delivered sales of approximately \$39 billion in 2020. References to Dow or the Company mean Dow Inc. and its subsidiaries. For more information, please visit www.dow.com or follow [@DowNewsroom](https://twitter.com/DowNewsroom) on Twitter.

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