



DOWLEX 2388
Polyethylene Resin

DOWLEX 2388 Polyethylene Resin is an ethylene/octene-1 copolymer produced in the proprietary solution process of The Dow Chemical Company. It has a unique molecular structure with a controlled side chain distribution, which provides excellent stress crack resistance properties combined with outstanding Long Term Hydrostatic Strength.

Applications Pipes for hot and cold water systems, e.g.:

- Hot / cold drinking water distribution
- Radiator connections
- Heating / cooling applications
- Mono- and multi-layer pipe
- Industrial applications.

Main Characteristics

- Suitable for elevated temperatures without crosslinking
- Outstanding taste and odor performance
- Excellent processability.

Processing Recommendations DOWLEX 2388 Polyethylene Resin is easy to process on traditional PE processing equipment. Typical extrusion temperatures for processing range from 190 to 230 °C. For further information see our Extrusion Guideline.

Note DOWLEX 2388 Polyethylene Resin should comply with FDA regulation 177.1520, EU-Directive 2002/72/EC when used unmodified and processed according to good manufacturing practices. Please contact your nearest Dow office to obtain a detailed food contact compliance statement. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Properties ⁽¹⁾			S.I.
Physical	Test Method	Unit	
Melt index, 190 °C/2.16 kg	ISO 1133	g/10 min	0.55
Melt index, 190 °C/5 kg	ISO 1133	g/10 min	1.85
Density	ISO 1183	g/cm ³	0.941
Vicat Softening Point	ISO 306	°C	124.7
Thermal Conductivity at 60 °C	DIN 52612-1	W/(m K)	0.4
Thermal Expansion Coefficient	DIN 53752 A (20 °C to 70 °C)	10 ⁻⁴ /K	1.8
Mechanical ^(1,2)			
Hardness, Shore D	ISO 868	-	60.5
Tensile Yield ⁽³⁾	ISO 527-2	MPa	20.3
Tensile Yield Elongation ⁽³⁾	ISO 527-2	%	14
Ultimate Tensile ⁽³⁾	ISO 527-2	MPa	37
Ultimate Elongation ⁽³⁾	ISO 527-2	%	780
Flexural Modulus	ISO 178	MPa	660
Elastic Modulus	ISO 527-2	MPa	645
Izod Impact	ISO 180	kJ/m ²	23.0

- (1) These are typical properties only and are not to be regarded as sales specifications. Users should confirm results by their own tests.
- (2) Compression moulded samples (2 mm thick).
- (3) Crosshead speed 50 mm/min.





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- c. use as a critical component in medical devices that support or sustain human life; or
- d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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