



DOWLEX™ 2366 Polyethylene Resin

Description

DOWLEX™ 2366 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 very good long term hydrostatic strength and high flexibility.

Applications

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

- Floor heating
- Wall heating/cooling
- Ceiling cooling
- Radiator connections
- Warm/cold drinking water distribution
- Heat recovery systems
- Solar panels

Processing Recommendations

Typical extrusion temperatures for processing of DOWLEX™ 2366 Polyethylene Resin range from 190 to 230°C. The use of a reverse temperature profile may be beneficial on certain types of processing equipment. For further information, see our Extrusion Guideline.

Complies with

- EU, No 10/2011
- U.S. FDA 21 CFR 175.105(c)(5)

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing aid: No

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ISO ² 1183-1
Melt Index			
190°C/2.16 kg	0.70	g/10 min	ISO 1133
190°C/5.0 kg	2.25	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit (SI)	Test Method
Tensile Modulus			ISO 527-2
2.00 mm, Compression Molded	560	MPa	

1. Typical properties: these are not to be construed as specifications. Users should confirm results by their own tests.
2. ISO: International Standardization Organization



Properties (Cont.)

Mechanical	Nominal Value	Unit (SI)	Test Method
Tensile Stress			ISO 527-2
Yield, 2.00 mm, Compression Molded	17.0	MPa	
Break, 2.00 mm, Compression Molded	43.0	MPa	
Tensile Strain			ISO 527-2
Yield, 2.00 mm, Compression Molded	13	%	
Break, 2.00 mm, Compression Molded	> 800	%	
Flexural Modulus	600	MPa	ISO 178
Thermal	Nominal Value	Unit (SI)	Test Method
Vicat Softening Temperature	119	°C	ASTM ³ D1525
CLTE – Flow (20 – to 70°C)	2.74 E-4	cm/cm/°C	DIN ⁴ 53752
Thermal Conductivity (60°C)	0.40	W/m/K	DIN 52612
Cured Properties	Nominal Value	Unit (SI)	Test Method
Shore Hardness			
Shore D, 2.00 mm	60		ISO 868

3. ASTM: American Society for Testing and Materials
4. DIN: Deutsche Industrie Norm

