DOWLEX™ 2377

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX 2377 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 Industrial Applications, e.g.:
Cooling water distribution
District heating/cooling
Desalination pipes
Mono- and multi-layer pipe
Main Characteristics:
Suitable for elevated temperatures without crosslinking
Excellent processability
Flexibility
Processing Recommendations:
DOWLEX 2377 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:
The purchaser remains responsible for determining whether the use complies with all relevant regulations.

General Information			
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.941	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.54	g/10 min	
190°C/5.0 kg	1.9	g/10 min	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 2.00 mm, Compression Molded)	61		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	645	MPa	ISO 527-2
Tensile Stress			ISO 527-2/50
Yield, 2.00 mm, Compression Molded	20.3	MPa	
Break, 2.00 mm, Compression Molded	37.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 2.00 mm, Compression Molded	14	%	
Break, 2.00 mm, Compression Molded	780	%	
Flexural Modulus (2.00 mm, Compression Molded)	660	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	23	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**

Vicat Softening Temperature	126	°C	ISO 306
CLTE - Flow (20 to 70°C)	1.8E-4	cm/cm/°C	DIN 53752
Thermal Conductivity (60°C)	0.40	W/m/K	DIN 52612

Recommended distributors for this material

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