DOWLEX[™] 2344

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX* 2344 Polyethylene Resin is an ethylene-octene 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. Processability: Typical extrusion temperatures for processing of DOWLEX 2344 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) U.S. FDA 21 CFR 177.1520(c)3.2a (with Restrictions) **NSF 14 NSF 61** 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

General Information	
Agency Ratings	EU No 10/2011
	FDA 21 CFR 177.1520
	NSF 14
	NSF 61
Forms	Pellets
Processing Method	Extrusion Coating
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.933	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.70	g/10 min	
190°C/5.0 kg	2.2	g/10 min	
Environmental Stress-Cracking Resistance			
(50°C, 10% Antarox)	> 8760	hr	ISO 180
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D. 2.00 mm.			
Compression Molded)	53		ISO 868
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus (2.00 mm, Compression			
Molded)	580	MPa	ISO 527-2
Tensile Stress			ISO 527-2/50
Yield, 2.00 mm, Compression Molded	16.5	MPa	
Break, 2.00 mm, Compression Molded	34.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 2.00 mm, Compression Molded	13	%	
Break, 2.00 mm, Compression Molded	> 800	%	
Flexural Modulus (2.00 mm, Compression			
Molded)	550	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ASTM D1525
CLTE - Flow (20 to 70°C)	2.0E-4	cm/cm/°C	DIN 53752
Thermal Conductivity (60°C)	0.40	W/m/K	DIN 52612

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

