DOWLEX™ 2355

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX 2355 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 2355 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.
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
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)
Consult the regulations for complete details.

General Information	
Agency Ratings	FDA 21 CFR 175.105(c) (5) FDA 21 CFR 177.1520(c) 3.2a (With Restrictions) Europe 10/1/2011 12:00:00 AM

Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.931	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.70	g/10 min	ASTM D1238
190°C/5.0 kg	2.3	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Antarox)	> 8760	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	399	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, 2.00mm, molded	14.0	MPa	ISO 527-2
Fracture, 2.00mm, molded	36.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 2.00mm, molded	6.0	%	ISO 527-2
Fracture, 2.00mm, molded	> 800	%	ISO 527-2

Flexural Modulus (2.00 mm, Compression Molded)	429	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	119	°C	ASTM D1525
CLTE - Flow (20 to 70°C)	2.7E-4	cm/cm/°C	DIN 53752
Thermal Conductivity (60°C)	0.40	W/m/K	DIN 52612
Cured Properties	**Nominal Value**		**Test Method**
Shore Hardness [1] (Shore D, 2.00 mm)	59		ISO 868
NOTE			
1.	Compression Molded		

Recommended distributors for this material

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