

Lucene™ SP 980

Polyethylene

LG Chem Ltd.

Message:

Applications:

Hot & cold drinking water pipe, Floor heating, Radiator connection, Al composite pipe.

Description:

SP 980, LG PERT is a high performance PE for hot and cold water pipe. It was developed by using a new LG catalyst technology as well as new concept which lead to a BOCD(Broad Orthogonal Co-monomer Distribution) molecular structure. Pipes made out of SP 980 offer excellent properties to both processability and Long Term Hydrostatic Strength. SP980 conforms to the FDA regulation 21 CFR 177.1520. and the NSF/ANSI standard 61(drinking water system components-Health effects).

General Information			
Features	Good Processability		
	Hydrolysis Resistant		
Uses	Flooring		
	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
	NSF 61		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, F50)	> 10000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	18.6	MPa	
Break	34.3	MPa	
Tensile Elongation ² (Break)	700	%	ASTM D638
Flexural Modulus ³	549	MPa	ASTM D790
Internal Pressure Resistance			
1 Hr ⁴	Pass		
1000 Hr ⁵	Pass		
165 Hr ⁶	Pass		
Thermal Stability - Hydrostatic Pressure Test ⁷	Pass		
Impact	Nominal Value	Unit	Test Method

Unnotched Izod Impact (23°C, 6.35 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.8 mm/min		
4.	20°C, 10 MPa		
5.	95°C, 3.5 Mpa		
6.	95°C, 3.6 Mpa		
7.	8760 Hr, 110°C, 1.9 Mpa		

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