

SP 988

Linear Low Density Polyethylene · PE-RT Type II Grade



Certified to NSF/ANSI Std. 61

Application

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

Description

SP 988, LG PE-RT Type II 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 988 offer excellent properties to both processability and Long Term Hydrostatic Strength. SP988 conforms to the FDA regulation 21 CFR 177.1520. and the NSF/ANSI standard 61 (drinking water system components-Health effects).

Specification

Properties	Test Method	Condition	Unit	Value
Physical				
Melt Index	ASTM D 1238	190 °C / 2.16kg	g/10min	0.6
Density	ASTM D 1505	23 °C	g/cm ³	0.941
Vicat Softening Temperature	ASTM D 1525	-	°C	125
Mechanical				
Tensile Strength at Yield	ASTM D 638	50mm/min	kg/cm ²	210
Tensile Strength at Break	ASTM D 638	50mm/min	kg/cm ²	370
Elongation at Break	ASTM D 638	50mm/min	%	750
Notched Izod Impact Strength	ASTM D 256	1/4", 23 °C	kg·cm/cm	N.B
Flexural Modulus	ASTM D 790	2.8mm/min	kg/cm ²	5,900
Shore Hardness	ASTM D 2240	Shore D	-	61
E.S.C.R	ASTM D 1693	F50, 50 °C	hr	> 10,000

* NOTE : Above given value should only be used as a guide and should not be considered as a guarantee.

Pressure Test

Item	Test Method	Condition	Test Time	Result
Internal Pressure Test	KS M3416	20 °C, 10MPa	1h	Pass
Internal Pressure Test	KS M3416	95 °C, 3.6MPa	165h	Pass
Internal Pressure Test	KS M3416	95 °C, 3.5MPa	1,000h	Pass
Thermal Stability by Hydrostatic Pressure Test	KS M3416	110 °C, 1.9MPa	8,760h	Pass