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# FINAL TEST REPORT

## Send To: 1Q090

Mr. Eugene Hwang Hyundai Engineering Plastics Co., Ltd. 1233 Tongjeong-Li, Seokmum Myun Dangjin-Gun, Chungnam 343-856 Republic of Korea

#### Facility: 1Q092

Hyundai Engineering Plastic Co., Ltd. 690, Kwanghyewon-Li, Kwanghyewon-Myun Jincheon-Gun, Chungbuk 365-830 Republic of Korea

Result:	PASS	Report Date: 21-Aug-2013
Customer Name:	Hyundai Engineering Plastic Co., Ltd.	
Tested To:	D2837-12 and PPI TR3-2012 (E10 @ 180°F)	
Description:	1/2" PEX tubing	
Test Type:	HDS Testing	
Trade Designation:	Polylink XP650 / XC200	
Job Number:	J-00109471	
Project Number:	9127093 (PL01)	
Project Manager:	Sarah Meagrow	

### Thank you for having your product tested by NSF International.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

**Report Authorization:** 

Ata Ciechanowski, P.E. Assistant Director, Engineering Lab

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#### **Test Results and Data**

OD	Wall Thick.	Stress	Time	Pressure	Environment	Failure Type
0.628	0.072	1004	19	260	Water	Ductile
0.627	0.073	968	4	255	Water	Ductile
0.627	0.073	949	22	250	Water	Ductile
0.628	0.072	927	262	240	Water	Ductile
0.628	0.072	946	33	245	Water	Ductile
0.626	0.073	909	1207	240	Water	Ductile
0.627	0.073	937	23	247	Water	Ductile
0.627	0.073	971	2	256	Water	Ductile
0.627	0.072	964	25	250	Water	Ductile
0.627	0.072	933	180	242	Water	Ductile
0.627	0.073	911	475	240	Water	Ductile
0.626	0.073	901	3757	238	Water	Ductile
0.626	0.073	898	2344	237	Water	Ductile
0.627	0.072	940	142	244	Water	Ductile
0.626	0.073	943	25	249	Water	Ductile
0.627	0.073	835	10246	220	Air	No Failure
0.627	0.073	835	10246	220	Air	No Failure
0.627	0.072	821	10012	213	Air	No Failure
0.627	0.072	913	1608	237	Water	Ductile
0.627	0.073	899	1790	237	Water	Ductile
0.626	0.073	898	4197	237	Water	Ductile

**Regression Curve Equation:** 

808 psi

Log(t) = 140.086 - 46.464 Log(stress)

LCL =	771 psi
LCL/LTHS Ratio =	0.956
REQUIRED HDB=	800 psi

**HDB =** 800 psi

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LTHS =

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**FINAL TEST** 

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10

100

#### LTHS 180°F 0 0°F 0 180°F 0

1,000

Time [h]

10,000

1y

100,000

5y 10y

1,000,000

25y 50y 100y

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Stress [psi]

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