	PERMEATION A									
Bottle	Resin	Storage Condition	Bottle Tare w/o Cap (grams)	Cap Wt. (grams)	Fill Net (grams)	12/22/06 Gross Wt. (grams)	6/22/07 Gross Wt. (grams)	Net Wt. Change	Appearance of Bottle and Liquid	Drop Test Results
А	Single Layer PPQ, 0.050" min. wall thickness	180 Days <u>></u> 64°F (18°C)	208	10	3,167	3,385	3,385	0	White/ Clear	Pass 1.42 n + 1.9 m + 5.23 m
В	Single Layer PPQ, 0.050" min. wall thickness	180 Days <u>></u> 64°F (18°C)	207	10	3,166	3,383	3,383	0	White/ Clear	Pass 1.42 m + 1.9 m + 5.23 m
С	Single Layer PPQ, 0.050" min. wall thickness	180 Days <u>></u> 64°F (18°C)	208	10	3,170	3,388	3,388	0	White/ Clear	Pass 1.42 m + 1.9 m + 5.23 m
D	Single Layer Equistar LR7340-01 HDPE, 0.050" min. wall thickness	180 Days <u>></u> 64°F (18°C)	207	10	3,167	3,384	3,384	0	Yellow/ Yellow	Fail 1.42 m
Е	Single Layer Equistar LR7340-01 HDPE, 0.050" min. wall thickness	180 Days <u>></u> 64°F (18°C)	207	10	3,166	3,383	3,383	0	Yellow/ Yellow	Fail 1.42 m
F	Single Layer Equistar LR7340-01 HDPE, 0.050" min. wall thickness	180 Days <u>></u> 64°F (18°C)	207	10	3,170	3,387	3,387	0	Yellow/ Yellow	Fail 1.42 m
	Test began on 12/22/06 January 22, 2008/ Writte									

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PERMEA	TION AND CO	MPATIBIL	ITY TEST	ING OF	PPQ F	RESIN BOTTL	ES CON	TAINING 70% NITRIC	CACID	
Preparation:										
On 12/22/06, six PurePak 2.5 L bottles were prepared for testing; three were extrusion blow-molded with a proprietary HDPE we identify as PPQ Resin and three were extrusion blow molded with Lyondell Equistar LR7340-01 HDPE. All six bottles were tare weighed then filled with 7 pounds net (2.236 L) of 70% nitric acid. These six filled bottles were placed into temperature controlled storage at a temperature not less than 64 degrees F (18 degrees C) and maintained for 180 days. On 06/22/07, the six stored bottles were reweighed, emptied, rinsed, filled to 2.236 L with water and with filled container at ambient temperature, dropped onto concrete. For 70% nitric acid, having a specific gravity of 1.42, the Drop Test, as in accordance with Part 178.603(e)(2)(ii)((B) was performed from 1.42 meters (56 inches).										
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Results:										
Bottles A, B & C: Each of the three PPQ Resin bottles, when individually dropped, bounced without failure. Visual examination of the dropped bottles revealed zero adverse effect to the bottles; no denting, cracking or deformation. No liquid escaped. Although not required by DOT, these same three bottles were additionally dropped from 1.9 meters (75 inches) with success and again from 5.23 meters (206 inches) with success. Through all three drop tests, all three bottles remained unaffected and allowed zero fugitive liquid emissions.										
	& F: Each of the contained			HDPE	bottles,	when dropped	d, broke i	nto multiple pieces up	oon	
Test beg	gan on 12/22/06 a	and was con	cluded 06/2							
January	January 22, 2008/ Written by: Michael A. Dodd									
	Duro Dele T	oobpoleer (Carparatia	224 6-	uth Bro	okan Lana Suit	o 2 Chana	How A7 05004		
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