

# Perastic, LLC

1704 North Park Drive  
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Third Party Test Report on A-Nanbrol® and Aflas® 80 blends  
 August 2017

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Compound ID	Units	A-NANBROL®	#2	#1	AFLAS® 80
% A-NANBROL®	%	100.0	50.0	20.0	0.0
% AFLAS® 80	%	0.0	50.0	80.0	100.0
<b>PHYSICAL PROPERTIES</b>					
TENSILE	mPa	19.7	20.9	20.8	19.7
	psi	2862	3025	3015	2860
ELONGATION	%	144	271	257	304
M50	mPa	14.6	9.8	6.5	4.0
	psi	2124	1424	943	582
M100	mPa	0.0	15.6	13.2	9.5
	psi		2259	1911	1373
DUROMETER	SHORE A	91	89	80	75
TEAR STRENGTH RT	kN/m	77.0	55.0	46.4	36.8
	pli	440	314	265	210
TEAR STRENGTH 200 °C	kN/m	19.4	12.4	8.8	5.8
	pli	111	71	50	33
COMPRESSION SET @200C 72 hrs		34	35	33	25
DENSITY		1.60	1.59	1.58	1.57
ML (177C/10min)	(dNm)	4.91	3.40	4.27	4.66
MH	(dNm)	82.47	50.53	27.92	19.54
Ts1	min	0.36	0.12	0.54	0.61
Ts2	min	0.50	0.55	0.62	0.74
T90	min	1.86	3.24	4.04	4.82
T95	min	2.41	4.41	5.51	6.42

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<b>Degradation @ 150C 72hrs in water</b>		<b>A-NANBROL®</b>	<b>#2</b>	<b>#1</b>	<b>AFLAS® 80</b>
TENSILE	mPa	17.5	18.9	17.2	18.2
	psi	2541	2747	2493	2637
ELONGATION	%	144	271	257	304
DUROMETER	SHORE A	91	89	80	75
M50	mPa	9.25	5.67	3.75	2.81
	psi	1341	823	544	407
M100	mPa	13.61	8.80	7.13	6.10
	psi	1974	1277	1034	885
TEAR STRENGTH RT	kN/m	52.2	41.0	32.7	28.9
	pli	298	234	187	165
<b>% Change after 72 hrs Hot Water @ 150 C</b>					
TENSILE	%	-11	-9	-17	-8
ELONGATION	%	67	67	19	11
DUROMETER, SHORE A	%	-5	-3	-7	-9
M50	%	-37	-42	-42	-30
M100	%	--	-43	-46	-36
TEAR STRENGTH RT	%	-32	-25	-29	-21

Nanbrol® is a registered trademark of Perastic, LLC

AFLAS® is a registered trademark of Asahi Glass Company, LTD.

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Data presented here was acquired by a variety of testing facilities using industry standard measurement equipment.