

**POLYHEDRON LABORATORIES® , INC.**  
**PLASTICS, POLYMERS and RUBBER TESTING**

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Industrial Polymers, Inc.  
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Attn: Mr. Carl Boddie

## Analytical Report

**Sample** - Top Coat CRX/Speedliner CRX  
30 Day Immersion @ 140°F in 25% Sodium Hydroxide

### Tensile Properties by ASTM D 412

### Tear Strength by ASTM D 624

<u>Tensile Strength (psi)</u>	<u>% Elongation</u>	<u>100% Modulus (psi)</u>	<u>Tear Strength (lbs•f/in)</u>
3452.5	384.3	838.74	731.31
1593.8	202.7	938.99	716.25
3261.7	334.8	987.84	510.77
3738.6	402.6	899.69	741.44
<u>4228.0</u>	<u>389.2</u>	<u>957.01</u>	<u>658.57</u>
AV = 3254.9 ± 997.4	AV = 324.7 ± 82.4	AV = 924.45 ± 57.6	AV = 671.67 ± 95.5

**Sample** - Top Coat CRX/Speedliner CRX  
30 Day Immersion @ 140°F in 30% Nitric Acid

### Tensile Properties by ASTM D 412

### Tear Strength by ASTM D 624

<u>Tensile Strength (psi)</u>	<u>% Elongation</u>	<u>100% Modulus (psi)</u>	<u>Tear Strength (lbs•f/in)</u>
1202.2	271.5	737.72	337.02
1086.4	204.7	918.59	292.64
1251.4	285.4	692.40	350.10
1189.3	239.0	738.50	283.15
<u>1168.0</u>	<u>253.2</u>	<u>748.17</u>	<u>324.72</u>
AV = 1179.5 ± 60.4	AV = 250.8 ± 31.2	AV = 767.08 ± 87.4	AV = 317.53 ± 28.7

**Sample** - Top Coat CRX/Speedliner CRX  
30 Day Immersion @ 140°F in 32% Hydrochloric Acid

<u>Tensile Properties by ASTM D 412</u>			<u>Tear Strength by ASTM D 624</u>
<u>Tensile Strength (psi)</u>	<u>% Elongation</u>	<u>100% Modulus (psi)</u>	<u>Tear Strength (lbs•f/in)</u>
196.0	29.2	-	101.08
145.6	20.4	-	110.38
430.7	63.4	-	95.00
190.9	26.9	-	116.92
<u>385.5</u>	<u>62.8</u>	-	<u>102.04</u>
AV = 269.7 ± 128.8	AV = 40.5 ± 20.9		AV = 105.08 ± 8.6



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HK/dr