



MATERIAL SPECIFICATIONS

CURVEIL™ 220-15

BARCOL HARDNESS TEST MAT-2220

AF Number: 30394
 Date: 6/19/97
 Requester: Roth
 Analyst: LHL
 Calibration: 45

Reading	33.9
Std. Dev.	1.2

TENSILE TEST—ENGLISH UNITS INSTRON 4204 ASTM D-638 MAT-2202

Test type: Tensile Sample Rate (pts/secs): 5.0000
 Operator name: LSJ Crosshead Speed: 0.2000 in/min
 Sample Identification: 30394T6 2nd Crosshead Speed: 0.0000 in/min
 Interface Type: 4200 Full Scale Load Range: 10000.000 lbf

	Maximum Tensile Strength (psi)	Modulus (ksi)	Elongation at Max. Load (%)	Stress at Yield (psi)	Elongation at Yield (%)	Elongation at Break (%)	Width (in)	Thickness (in)
mean	3032	642.7	0.56	3007	0.56	0.57	0.477	0.091
s.d.	319	47.8	0.05	315	0.05	0.05	0.001	0.003

FLEX TEST—ENGLISH UNITS INSTRON 4202 ASTM D-790 MAT-2203 (SMOOTH SIDE UP)

Test type: Flex Sample Rate (pts/secs): 1.0000
 Operator name: KLD Crosshead Speed: 0.0400 in/min
 Sample Identification: 30394F6 2nd Crosshead Speed: 0.0000 in/min
 Interface Type: 4200 Full Scale Load Range: 1000.000 lbf

	Flexural Strength (psi)	Tangent Modulus (ksi)	Load at Yield (lbs)	Strain at Yield (in/in)	Width (in)	Thickness (in)	Span (in)
mean	5370.5	455.2	20.8	0.014	0.990	0.094	1.500
s.d.	336.5	31.2	1.1	0.001	0.006	0.003	0

Instron Corp. Series IX Automated Materials Testing System: 7.27.00
 Test date: Friday, June 20, 1997
 Humidity (%): 50
 Temperature: 73° F

*Testing performed in cooperation with
 Ashland Chemical Physical Testing Lab.*