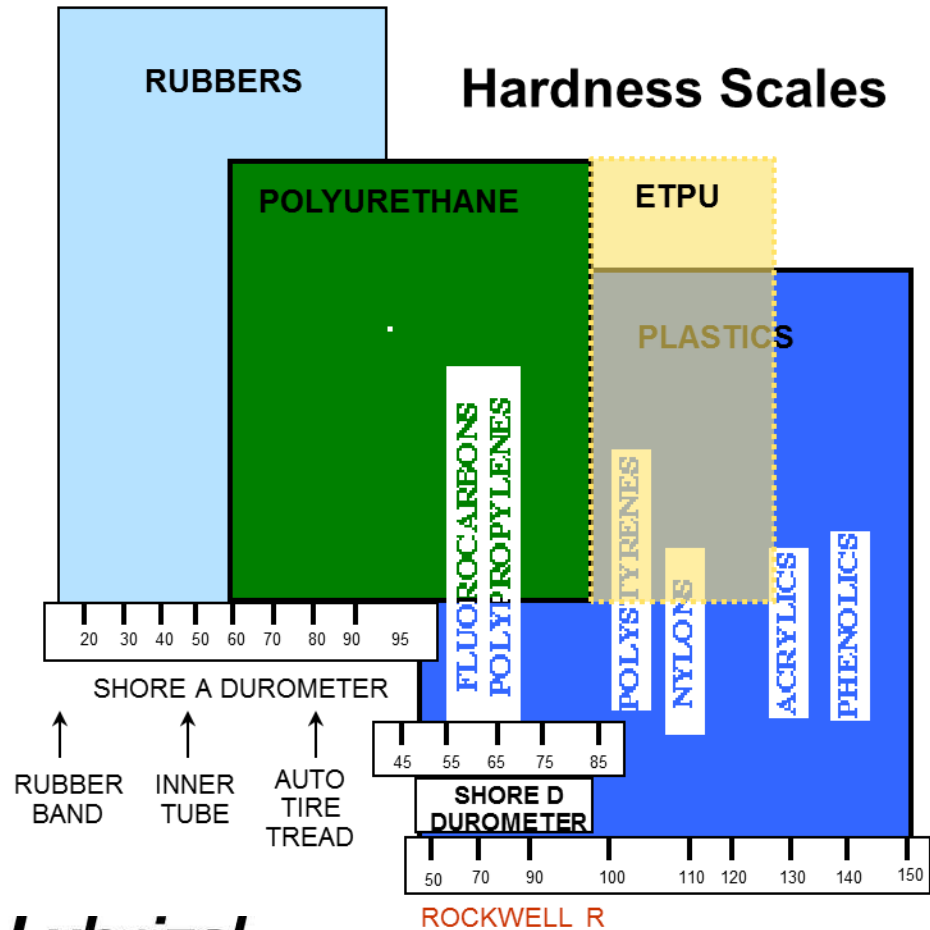


HARDNESS SCALES

CONVERSIONS

A	B	C	D	O	OO
100	89	77	58		
95	81	70	46		
90	76	59	39		
85	71	52	33		
80	66	47	29	84	98
75	62	42	25	79	97
70	56	37	22	75	95
65	51	32	19	72	94
60	47	28	16	68	93
55	42	24	14	65	91
50	37	20	12	61	90
45	32	17	10	57	88
40	27	14	8	53	86
35	22	12	7	48	83
30	17	9	6	42	80
25	12			35	76
15	6			28	70
10				21	62
5				14	53
				8	45



Lubrizol Advanced Materials, Inc.

Global Headquarters | 9911 Brecksville Road | Cleveland, OH 44141-3201 USA