

PARTICLE SIZE					
Sieve Mesh <sup>1</sup>	Micron	Millimeter	Inch	Mill	Hegman Fineness <sup>2</sup>
	0.0	0.000	0.0000	0.00	8.0
	6.4	0.006	0.0003	0.25	7.5
1200	10.2	0.010	0.0004	0.40	
	12.7	0.127	0.0005	0.50	7.0
	19.1	0.019	0.0008	0.75	6.5
625	20.3	0.020	0.0008	0.80	
	25.4	0.025	0.0010	1.00	6.0
	30.5	0.031	0.0012	1.20	
	31.8	0.032	0.00125	1.25	5.5
400	38.1	0.038	0.0015	1.50	5.0
	40.6	0.041	0.0016	1.60	
325	44.5	0.045	0.0018	1.75	4.5
	50.8	0.051	0.0020	2.00	4.0
270	53.3	0.053	0.0021	2.10	
	57.2	0.057	0.0023	2.25	3.5
230	61.0	0.061	0.0024	2.40	
	63.5	0.064	0.0025	2.50	3.0
	69.9	0.070	0.0028	2.75	2.5
	71.1	0.071	0.0028	2.80	
200	73.7	0.074	0.0029	2.90	
	76.2	0.076	0.0030	3.00	2.0
	81.3	0.081	0.0032	3.20	
	82.6	0.083	0.0033	3.25	1.5
170	88.9	0.089	0.0035	3.50	1.0
	95.3	0.095	0.0038	3.75	0.5
140	101.6	0.102	0.0040	4.00	0.0
120	125.0	0.125	0.0049	4.90	
100	149.0	0.149	0.0059	5.90	
80	177.0	0.177	0.0070	7.00	
70	210.0	0.210	0.0083	8.30	

1) STANDARD SIEVE MESH: ASTM E.11-81/ISO565.  
The numbers are the approximate number of openings per linear inch.

2) HEGMAN FINENESS: ASTM D1210-96.  
Fineness of dispersion of pigment-vehicle systems by Hegman-type gage.

SIZE & SCALE			
Name	Symbol	Value	Equivalent (in meters)
Picometer	pm	10 <sup>-12</sup>	0.000 000 000 001
Nanometer	nm	10 <sup>-9</sup>	0.000 000 001
Micrometer	µm	10 <sup>-6</sup>	0.000 001
Millimeter	mm	10 <sup>-3</sup>	0.001
Centimeter	cm	10 <sup>-2</sup>	0.01
Decimeter	dm	10 <sup>-1</sup>	0.1
Meter	m	1	1
Decameter	dam	10	10
Hectometer	hm	10 <sup>2</sup>	100
Kilometer	km	10 <sup>3</sup>	1 000
Megameter	Mm	10 <sup>6</sup>	1 000 000
Gigameter	Gm	10 <sup>9</sup>	1 000 000 000
Tetrameter	Tm	10 <sup>12</sup>	1 000 000 000 000

CONVERSION FORMULAS			
MASS			
1 metric ton	(t)	=	2,204.6 pounds (lb)
1 metric ton	(t)	=	1,000 kilograms (kg)
1 kilogram	(kg)	=	2.205 pounds (lb)
1 pound	(lb)	=	0.454 kilograms (kg)
1 short ton	(tn)	=	2,000 pounds (lb)
LENGTH			
1 meter	(m)	=	39.37 inches (in)
1 meter	(m)	=	3.281 feet (ft)
1 mil	(mil)	=	25.4 micron (µm)
TEMPERATURE			
		°C = (°F - 32) / 1.8	
		°F = (°C * 1.8) + 32	

SPECIFIC GRAVITY/DENSITY COVERSION				
g/cc	1	1,000	8.3454	62.43
kg/m <sup>3</sup>	0.0010	1	0.0083	0.0624
lb/gal	0.1198	119.83	1	7.4805
lb/cu-ft	0.0160	16.018	0.1337	1
	g/cc	kg/m <sup>3</sup>	lb/gal	lb/cu-ft

Read across, then down. Example, 1 g/cc (blue column) = 1,000 (2nd numeric column) kg/m<sup>3</sup> (grey row).  
NOTE: cm<sup>3</sup> = g/cc

HARDNESS SCALES COMPARISON																
Shore A	20	30	40	50	60	70	80	90	95							
Shore D									45	55	65	75	85			
Rockwell R								50	70	90	100	110	120	130	140	150

POLYMERS	
Name	Abbr.
MORE POLAR	
Nylon	PA
Polysulfide	T
Polyurethane	PU
Nitrile (High ACN)	NBR
Epoxy	EP
Polycarbonate	PC
Polyvinyl Acetate	PVA
Nitrile (Med ACN)	NBR
Acrylic Rubber	ACM
Epichlorohydrin	ECO
Cholorosulfonated Polyethylene	CSM
Polyvinyl Chloride	PVC
Polystyrene	PS
Polychloroprene	CR
Nitrile (Low ACN)	NBR
Chlorinated PE	CPE
Styrene-Butadiene Rubber	SBR
Polybutadiene	BR
Natural Rubber	NR
Halo Butyl	HIIR
Ethylene-Propylene Diene	EPDM
Ethylene-Propylene Rubber	EPR
Butyl Rubber	IIR
Fluoroelastomer	FKM
Silicone	Q
LESS POLAR	

TEMP	
°C	°F
538	1000
500	932
482	900
475	887
450	842
427	800
425	797
400	752
375	707
371	700
350	662
325	617
316	600
300	572
275	527
260	500
250	482
232	450
225	437
204	400
200	392
191	375
177	350
175	347
163	325
150	302
149	300
135	275
125	257
121	250
100	212
88	200
70	158
50	122
32	90
25	77
14	57
10	50
0	32
-4	25
-10	14
-12	10
-18	0
-25	-13
-32	-25
-46	-50
-50	-58
-73	-100
-100	-148
-157	-250
-200	-328
-273	-460