

■ U.S. List Prices for Polyimides^a (dollars per pound, neat polymer basis)

	1980	1984	1988	1992	1996	2000
Molding Resins and Fabricated Parts						
4203(unfilled)	14.15	18.15	19.90	22.25	21.25	22.0
4301(graphite/PTFE filled)	13.05	16.70	17.40	19.75	20.00	20.00
5030(glass filled)	12.20	16.10	17.40	19.50	19.50	19.50
Torlon® 7130(graphite fiber filled)	25.00	24.65	26.00	30.00	30.00	30.00
Vespel® Parts ^b	>120.00	>150.00	>150.00	>150.00	150.00	150.00
Vespel® Stock Shapes ^b	225.00	250.00	250.00	250.00	250.00	250.00
Ultem®		4.50	4.55	5.12~5.39	5.00~5.70	6.60~8.75
Wire Enamels						
Polyimide (14~15% solids)	3.70	4.15	3.00~3.58	4.70	4.80	5.00
Poly(amide - imide) (25~27% solids) ^c	1.30~1.40	1.60	1.50~1.60	2.50	2.50	2.50
Poly(ester - imide) ^c	0.92 ^d	1.3 ^e	0.90~1.25 ^f	2.00 ^e	2.00 ^e	2.00
Films						
Kapton®+C21 100HN (1mil)	35.00	45.00	55.00	60.00	60.00~65.00	73.50
Apical®			55.00	61.00	61.0	74.00
Laminates						
Skybond® ^g	12.00	15.00	17.00	25.00	25.00	25.00
Kerimid®	10.00~11.00	16.00	18.50 ^d	20.00	20.00	20.00
Matrimid®				30.00	30.00	30.00
Vespel® CP ^h						na

a. Prices are those in effect in January of each year. Prices are for neat resin unless otherwise stated.

b. The prices for Vespel parts and standard shapes vary considerably and dependent on the configuration of the part (and the machining that is required), the size of the part or shape and the volume ordered. List prices indicated in the table reflect the lower end of the price ranges for parts and standard shapes.

c. The lower price of poly(ester-imide) enamels compared with poly(amide-imide)s is due mainly to the cost of the principal solvent in each system; cresol/phenol combination solvent currently sells for less than \$0.65 per pound, whereas N-methyl pyrrolidone sells for around \$1.30 per pound.

d. As 35% solids.

e. As 30% solids.

f. As 30~40% solids.

g. Average price for all grades.

h. Not available as stock shape. Produced as custom parts and prices influenced by raw material cost. SOURCE : CEH estimates.

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United States					
	Thousands of pounds		Metric Tons		Average Annual Growth Rate, 1999~2004(%)
	1999	2004	1999	2004	
Molding Resins/Parts	1,850	2,360	839	1,070	5.0
Wire Enamels	2,275	2,500	1,032	1,134	1.9
Films	1,525	2,010	692	912	5.7
Fibers	365	540	165	245	8.1
Prepregs/Composites	600	680	272	308	2.5
Coatings	350	450	159	204	5.0
Adhesives	60	80	27	36	6.0
Foams	200	245	91	111	4.1
Total(excluding Ultem®)	7,225	8,865	3,277	4,021	4.20%
Aurum®	150	250	68	113	10.7
Ultem®	20,000	30,000	9,072	13,608	8.4
Total(Including Ultem®)	27,375	39,115	12,417	17,742	7.40%

Western Europe					
	Thousands of pounds		Metric Tons		Average Annual Growth Rate, 1999~2004(%)
	1999	2004	1999	2004	
Molding Resins/Parts	1,689	2,809	766	1,274	10.7
Wire Enamels	3,534	3,624	1,603	1,644	0.5
Films	611	754	277	342	4.3
Fibers	585	785	265	355	6
Prepregs/Composites	648	831	294	377	5.1
Coatings	- -	- -	- -	- -	- -
Adhesives	196	403	89	183	15.5
Other	101	141	46	64	6.8
Total(Including Ultem®)	7,364	9,347	3,340	4,239	4.90%

Japan					
	Thousands of pounds		Metric Tons		Average Annual Growth Rate, 1999~2004(%)
	1999	2004	1999	2004	
Molding Resins/Parts	4,758	6,564	2,106	2,980	6.6
Wire Enamels	271	300	123	136	2
Films	2,202	3,235	1,000	1,469	8
Fibers	55	200	25	91	29
Prepregs/Composites	- -	- -	- -	- -	- -
Coatings	51	62	23	28	4
Adhesives	- -	- -	- -	- -	- -
Total(Including Ultem®)	7,337	10,361	3,331	4,704	7.10%

