



ema33

Ø mm	Qty Per Lot	Order Code	Price Per Lot				
			1+	5+	10+	20+	50+
<b>Rod 1000mm Length</b>							
6	5	717-4433					
10	5	717-4445					
15	3	717-4457					
20	2	717-4469					
25	2	717-4470					
32	2	717-4482					
36	1	717-4494					
40	1	717-4500					
45	1	717-4524					
50	1	717-4536					
65	1	717-4548					
<b>Rod 500mm Length</b>							
25	1	717-4550					
32	1	717-4585					
40	1	717-4597					
45	1	717-4603					
50	1	717-4615					
65	1	717-4627					
<b>Rod 300mm Length</b>							
70	1	717-4639					
77	1	717-4640					
83	1	717-4652					
90	1	717-4664					
96	1	717-4676					
102	1	717-4688					
110	1	717-4690					
120	1	717-4706					
130	1	717-4718					
<b>Sheet 610 x 305mm</b>							
Thickness							
1.5	3	717-4720					
3	2	717-4731					
6	1	717-4743					
10	1	717-4755					
15	1	717-4767					
20	1	717-4779					
25	1	717-4718					
<b>Sheet 305 x 305mm</b>							
6	1	717-4792					
8	1	717-4809					
10	1	717-4810					
12	1	717-4871					
15	1	717-4883					
20	1	717-4895					
25	1	717-4901					

All dimensions are approximate

## PETG



PETG sheets have high impact strength even at temperatures below zero. This allows punching, die cutting, shearing, cold bending riveting tc. as well; as conventional fabricating techniques.

PETG sheets have a light transmission at up to 90% combined with high surface gloss and optical quality.

PETG sheets are food compatible complying with FDA regulations. Applications vary but machine guards, point of sale items, food displays and containers, signs, shop fitting items.

- Excellent thermoformability
- High clarity
- Good impact resistance

- Food compatible
- Sterilisable with ETO or Gamma-Rays

Specific Gravity: 1.27  
 Tensile Strength 23°C: 50 N/mm<sup>2</sup>  
 Tensile Modulus: 2050 N/mm<sup>2</sup>  
 Coefficient of expansion: 5 10<sup>-5</sup> K<sup>-1</sup>

Deformation Temp  
 A: 1.81N/mm<sup>2</sup>: 63°C  
 B: 0.45N/mm<sup>2</sup>: 70°C  
 Specific Heat 30°C: 1170J/kg.k  
 Specific Resistance: 10<sup>15</sup> Ohm.cm

EMA44

Sheet	Order Code	Price Each				
		1+	5+	10+	20+	50+
1250 600 3mm	320-2756					
1250 600 4mm	320-2768					
1250 600 5mm	320-2770					
1250 600 6mm	320-2781					

## ABS

### Acrylonitrile Butadiene Styrene

- High impact strength
- Good electrical insulator
- Natural white
- Easily formed
- Reasonable chemical resistance

ABS is a tough and rigid thermoplastic exhibiting high impact resistance and which can be thermally formed easily. It also has good electrical properties and reasonable chemical resistance to acids and alkalis.

Specific gravity: 1.06  
 Tensile strength: 37 N/mm<sup>2</sup>  
 Flexural strength: 65 N/mm<sup>2</sup>  
 Flexural modulus: 1800 N/mm<sup>2</sup>  
 Impact strength Izod Notched: 290  
 Hardness (Rockwell R): 85  
 Linear thermal expansion coefficient: 9.5 K<sup>-1</sup> x 10<sup>-5</sup>

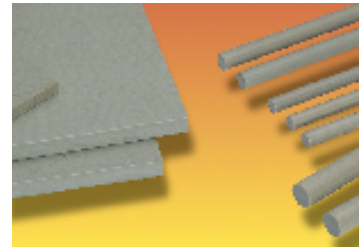
EMA34

Thickness mm	Order Code	Price Each				
		1+	5+	10+	20+	50+
<b>Sheet 610mm x 1220mm</b>						
1.5	717-5541					
3.0	717-5553					
4.5	717-5565					
6.0	717-5577					

All dimensions are approximate

## PEEK

### Polyetheretherketone



- Excellent chemical resistance
- Wide operating range (-60°C to 250°C)
- Superb electrical/dielectric performance
- Good radiation resistance (>100 Mrads)
- High stiffness/strength
- Good abrasion resistance
- Hydrolysis resistance
- Non-flammable

A high performance engineering thermoplastic with excellent chemical, electrical and mechanical properties. PEEK is tough, abrasion resistant material that retains good tensile and flexural properties at temperatures in excess of 250°C.

% Elongation 15 Dielectric strength 23.6kV/mm, flexural strength 244N/mm.

Specific gravity: 1.32  
 Water absorption: 0.45  
 Tensile strength: 110 N/mm<sup>2</sup>  
 Tensile modulus: 4200 N/mm<sup>2</sup>  
 Flexural strength: 170 N/mm<sup>2</sup>  
 Flexural modulus: 3660 N/mm<sup>2</sup>  
 Elongation: 20%  
 Hardness (Rockwell M): 105

Melt point: 340°C  
 Max. service temperature (20000hrs): 250°C  
 Min. service temperature: -60°C  
 Linear thermal expansion coefficient: 5 x 10<sup>-5</sup> K<sup>-1</sup>  
 Thermal conductivity: 0.25 W/K.m  
 Volume Resistivity: 4-9 x 10<sup>15</sup>  
 Dielectric strength: 24 kV/mm

EMA35

Ø mm	Order Code	Price Each				
		1+	5+	10+	20+	50+
<b>Rod 300mm Length</b>						
10	717-5589					
16	717-5590					
20	717-5607					
25	717-5772					
30	717-5796					
35	717-5802					
40	717-5838					
45	717-5840					
50	717-5851					
60	717-5863					
<b>Plate 245mm x 305mm</b>						
Thickness mm						
8	717-5875					
10	717-5887					
12	717-5899					
16	717-5905					
20	717-5917					
<b>Strip 45mm x 500mm</b>						
8	717-5929					
10	717-5978					
12	717-5980					
16	717-5991					
20	717-6004					

All dimensions are approximate

continued