

## Copolymer Polypropylene

Aortha PPC **Copolymer Polypropylene** plastic has excellent physical characteristics, particularly for applications where impact strength and heat resistance is important.

The ability of Polypropylene to yield pressure and torque, yet consistently return to its form without fatiguing, will eliminate distortion.

Copolymer Polypropylene (contains up to 15% Polyethylene) produces solid Orthoses. Very popular as it is economically priced, this material is used for practically all Orthotic applications.

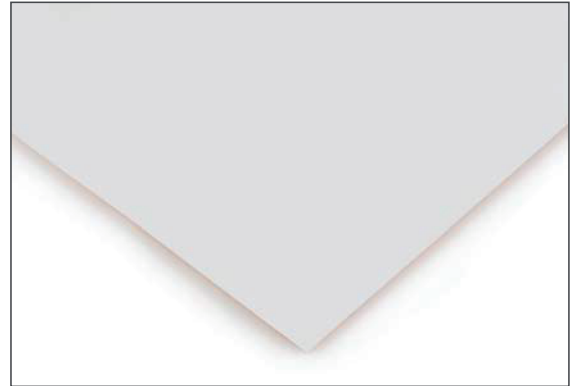
Typical thermoforming temperatures: 180-200°C.

### General features:

- ☒ Lightweight
- ☒ Good rigidity
- ☒ Good impact resistance
- ☒ Various colour options

### Applications:

AFOs, KAFOs, RGOs, AK Sockets, Body Jackets



### Availability:

#### (Sheeting)

Code	Sheet Size	Thickness	Colour
TA0002	2440 x 1220mm	2mm	Natural ○
TA0003	2440 x 1220mm	3mm	Natural ○
TA0009	2440 x 1220mm	3.5mm	Natural ○
TA0004	2440 x 1220mm	4.5mm	Natural ○
TA0006	2440 x 1220mm	6mm	Natural ○
TA0007	2440 x 1220mm	9mm	Natural ○
TA0008	2440 x 1220mm	12mm	Natural ○
TA0012	2440 x 1220mm	15mm	Natural ○

### Availability:

#### (Sheeting)

Code	Sheet Size	Thickness	Colour
TA0013	2440 x 1220mm	2mm	Beige ●
TA0014	2440 x 1220mm	3mm	Beige ●
TA0016	2440 x 1220mm	3.5mm	Beige ●
TA0017	2440 x 1220mm	4.5mm	Beige ●
TA0018	2440 x 1220mm	6mm	Beige ●
TA0019	2440 x 1220mm	9mm	Beige ●

**Availability:**  
(Sheeting)

Code	Sheet Size	Thickness	Colour
TA0222	2440 x 1220mm	2mm	White ○
TA0223	2440 x 1220mm	3mm	White ○
TA0224	2440 x 1220mm	4.5mm	White ○
TA0226	2440 x 1220mm	6mm	White ○
TA0229	2440 x 1220mm	9mm	White ○
TA0232	2440 x 1220mm	12mm	White ○
TA0235	2440 x 1220mm	15mm	White ○

**Availability:**  
(Sheeting)

Code	Sheet Size	Thickness	Colour
TA0201	2440 x 1220mm	2mm	Black ●
TA0203	2440 x 1220mm	3mm	Black ●
TA0204	2440 x 1220mm	4.5mm	Black ●
TA0206	2440 x 1220mm	6mm	Black ●
TA0209	2440 x 1220mm	9mm	Black ●
TA0212	2440 x 1220mm	12mm	Black ●
TA0215	2440 x 1220mm	15mm	Black ●

**Availability:**  
(Sheeting)

Code	Sheet Size	Thickness	Colour
TA0242	2440 x 1220mm	2mm	Red ●
TA0247	2440 x 1220mm	3mm	Red ●
TA0248	2440 x 1220mm	4.5mm	Red ●
TA0249	2440 x 1220mm	6mm	Red ●
TA0239	2440 x 1220mm	9mm	Red ●
TA0240	2440 x 1220mm	12mm	Red ●
TA0241	2440 x 1220mm	15mm	Red ●

**Availability:**  
(Prosthetic Squares)

Code	Sheet Size	Thickness	Colour
TA3109	305 x 305mm	9mm	Natural ○
TA3112	305 x 305mm	12mm	Natural ○
TA3115	305 x 305mm	15mm	Natural ○
TA3119	343 x 343mm	9mm	Natural ○
TA3122	343 x 343mm	12mm	Natural ○
TA3125	343 x 343mm	15mm	Natural ○
TA3129	406 x 406mm	9mm	Natural ○
TA3132	406 x 406mm	12mm	Natural ○
TA3135	406 x 406mm	15mm	Natural ○
TA3139	508 x 508mm	4.5mm	Natural ○
TA3142	508 x 508mm	6mm	Natural ○
TA3145	508 x 508mm	9mm	Natural ○

**Availability:**  
(Prosthetic Squares)

Code	Sheet Size	Thickness	Colour
TA3159	305 x 305mm	9mm	Beige ●
TA3162	305 x 305mm	12mm	Beige ●
TA3165	305 x 305mm	15mm	Beige ●
TA3169	343 x 343mm	9mm	Beige ●
TA3172	343 x 343mm	12mm	Beige ●
TA3175	343 x 343mm	15mm	Beige ●
TA3179	406 x 406mm	9mm	Beige ●
TA3182	406 x 406mm	12mm	Beige ●
TA3185	406 x 406mm	15mm	Beige ●
TA3189	508 x 508mm	4.5mm	Beige ●
TA3192	508 x 508mm	6mm	Beige ●
TA3195	508 x 508mm	9mm	Beige ●

**Material Properties:**

Properties	Unit	Standard	Method	Value
Density <sup>#</sup>	g/cm <sup>3</sup>	ISO 1183	-	0.92
Charpy Notch Impact Strength	KJ/m <sup>2</sup>	ISO 179	1eA at 23°C	35
Charpy Notch Impact Strength	KJ/m <sup>2</sup>	ISO 179	1eA at -30°C	4
Yield Strength	MPa	ISO 527	50mm/min	24
Tensile Modulus	MPa	ISO 178	1mm/min	900
Elongation at Yield	%	ISO 527	50mm/min	11
VICAT Softening Point	°C	ISO 306	B50/oil	85
Heat Distortion Temperature	°C	ISO 306	HDT/B 0.45 MPa	69