

ARPRO® Expanded Polypropylene

Post processing of moulded ARPRO®

Cutting ARPRO®

Method	Advantages	Cutting Tips	Comments
Band saw (horizontal or vertical)	<ul style="list-style-type: none"> All densities possible Standard equipment 	<ul style="list-style-type: none"> High cutting speed and wire cooling are recommended Cutting speed adjustment is needed with density 	<ul style="list-style-type: none"> Rough surface obtained
Hot wire	<ul style="list-style-type: none"> Portable equipment can be used 	<ul style="list-style-type: none"> Use a nickel-chromium wire, speed 0.5 to 2 cm/sec Wire temperature adjustment is required 	<ul style="list-style-type: none"> Thin parts more difficult

Assembling ARPRO®

Glue	Advantages	Processing	Tradename - Supplier (example)
Cyanoacrylate	<ul style="list-style-type: none"> Mono-component 	<ul style="list-style-type: none"> Need surface treatment or primer (e.g. Loctite® 770™) Curing time necessary 	<ul style="list-style-type: none"> Loctite® Hysol 3440™ - Henkel
Aminoacrylate	<ul style="list-style-type: none"> Only clean surface required 	<ul style="list-style-type: none"> Two component glue 	<ul style="list-style-type: none"> Scotch-Weld™ DP-8005 - 3M
Double face adhesive	<ul style="list-style-type: none"> Quick installation 	<ul style="list-style-type: none"> Surface treatment required For temporary applications only 	<ul style="list-style-type: none"> Gerband Klebeband 094500 - Gerlinger
Hot melt	<ul style="list-style-type: none"> Quick system Only clean surface required 	<ul style="list-style-type: none"> Glue gun needed Application to be studied depending on shapes 	<ul style="list-style-type: none"> Jet melt 3664Q – 3M Temperature 140 – 150°C

Recommended surface treatment: cleaning and degreasing with solvent (such as acetone or alcohols...). Treatment with sandpaper can also be used.

Welding	Advantages	Comments	Equipment used
Hot plate	<ul style="list-style-type: none"> Can be easily automated 	<ul style="list-style-type: none"> Medium investment Higher density of joint area 	<ul style="list-style-type: none"> Commercial welding system slightly modified
Hot air	<ul style="list-style-type: none"> Low investment (support + hot air blower) 	<ul style="list-style-type: none"> Reproducibility questionable Higher density of joint area 	<ul style="list-style-type: none"> Industrial hot air blower

Screwing ARPRO® ARPRO® can also be screwed or assembled to mechanical parts with suitable devices:



For
40 to
100 g/l



More information can be found, for example, on www.ejot.com