

Typical physical properties of ARPRO Grey, White, Application Specific and Colour

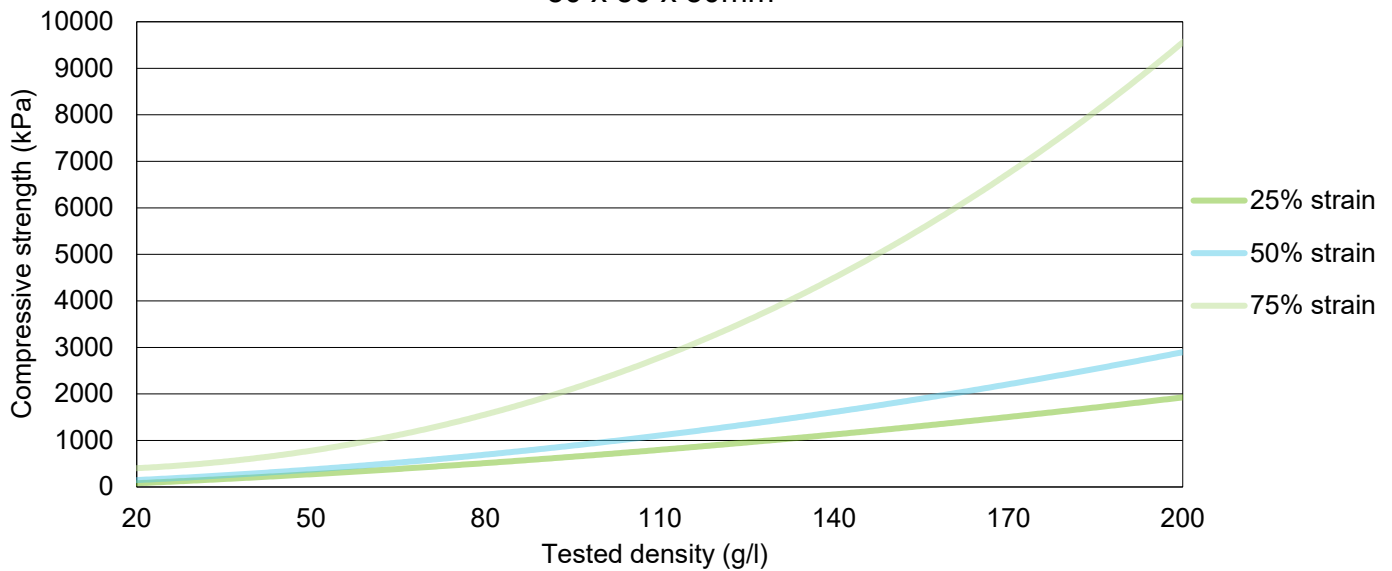
Property	Test	Unit	Density (g/l)					
			20	30	40	50	60	80
Compressive strength	ISO 844	kPa						
25% strain			80	150	210	275	340	500
50% strain			150	220	300	370	475	700
75% strain			370	460	600	800	1000	1600
Compression set	ISO 1856 C	%						
25% strain – 22 hours – 23°C	Stabilising 24 hours		12.5	12	11.5	11.5	11.5	11
Tensile strength	ISO 1798	kPa						
			300	430	550	670	780	950
Tensile elongation	ISO 1798	%						
			22	21	19	18	17	15

For ARPRO Porous and ARPRO Black properties please refer to the appropriate ARPRO datasheet.

Compressive strength: The ability of a material to resist forces that attempt to compress it.

Test method: ISO 844. Five 50*50*50mm cubes are compressed in an axial direction to the faces at a rate of 5mm/min, to a maximum of 85% compression. The compressive stress and corresponding relative deformation are recorded.

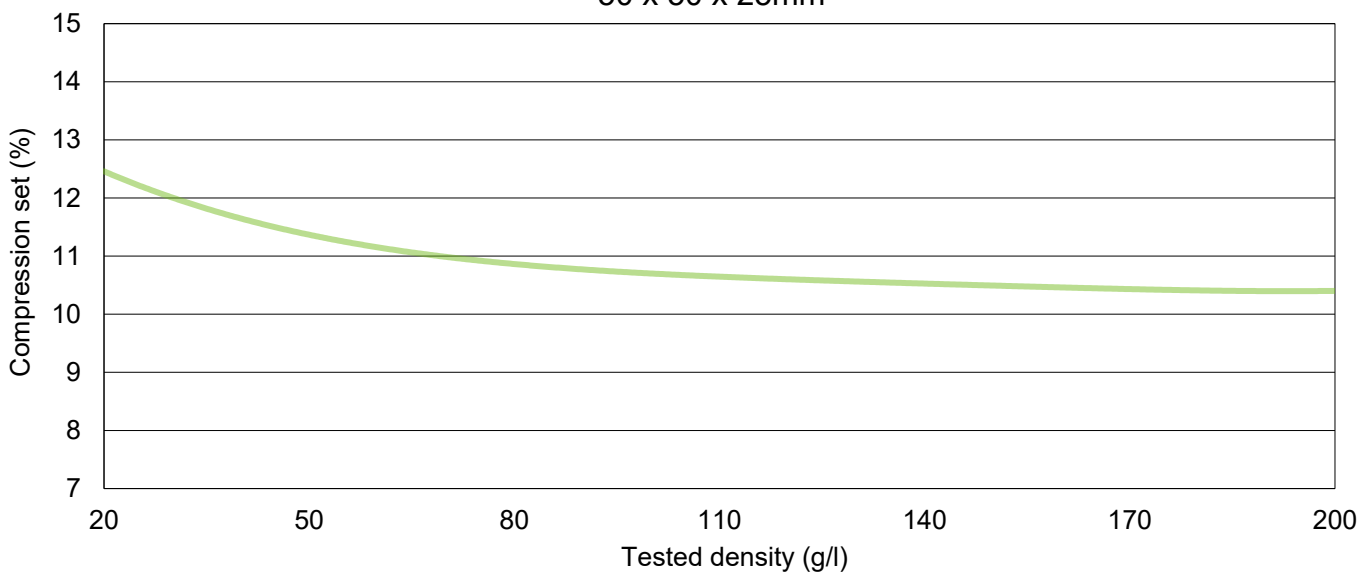
Compressive strength - ISO 844
50 x 50 x 50mm



Compression set: The ability to go back to original thickness after static deformation.

Test method: ISO 1856 C. Five 50*50*25mm samples are maintained for 22 hours at 23°C under 25% strain. The effect on the thickness 24 hours after the release is recorded.

Compression set - ISO 1856 C
50 x 50 x 25mm



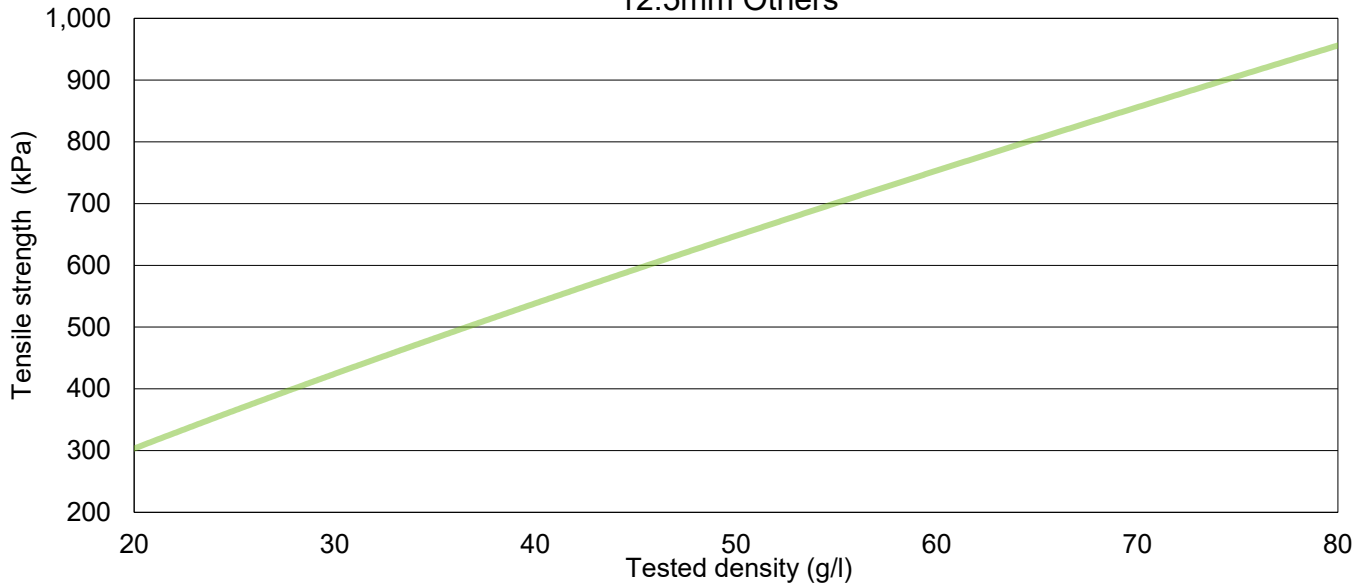
Version 01

This information is provided as a convenience to customers and reflects the results of internal tests conducted on ARPRO samples. While all reasonable care has been taken to ensure that this information is accurate as of the date of issue, JSP does not represent, warrant or otherwise guarantee, expressly or impliedly, the suitability, accuracy, reliability or completeness of the information. ARPRO is a registered trade mark.

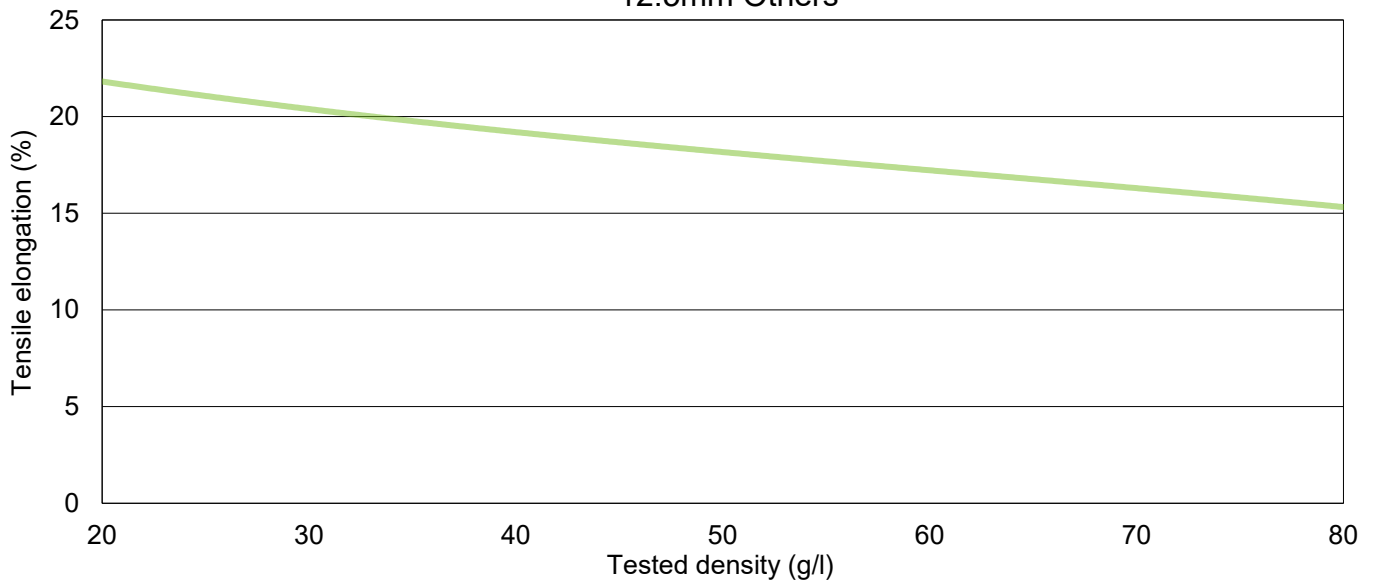
Tensile strength & elongation: The maximum strength and elongation that a material can withstand while being stretched or pulled before failing.

Test method: ISO 1798. Five 12.5mm thick test pieces (dumbbell shape) are extended at a constant rate of 500mm/min until they break. The strength & deformation at the break point are recorded.

Tensile strength - ISO 1798
12.5mm Others



Tensile elongation - ISO 1798
12.5mm Others



Version 01

This information is provided as a convenience to customers and reflects the results of internal tests conducted on ARPRO samples. While all reasonable care has been taken to ensure that this information is accurate as of the date of issue, JSP does not represent, warrant or otherwise guarantee, expressly or impliedly, the suitability, accuracy, reliability or completeness of the information. ARPRO is a registered trade mark.

Summary

The fusion level of parts is characterised by tensile strength and tensile elongation. The test shows that ARPRO has a good level of tensile strength and elongation, which means ARPRO is strong enough to handle further handling and mounting. This value also depends on the moulding parameters.

ARPRO is capable of handling significant loads with little loss of form or shape: the combination of compressive strength, compression set and multiple stress-strain tests illustrates this feature. The higher the density, the stiffer the material.

ARPRO is 100% recyclable and we also provide recycled ARPRO.