

Product description

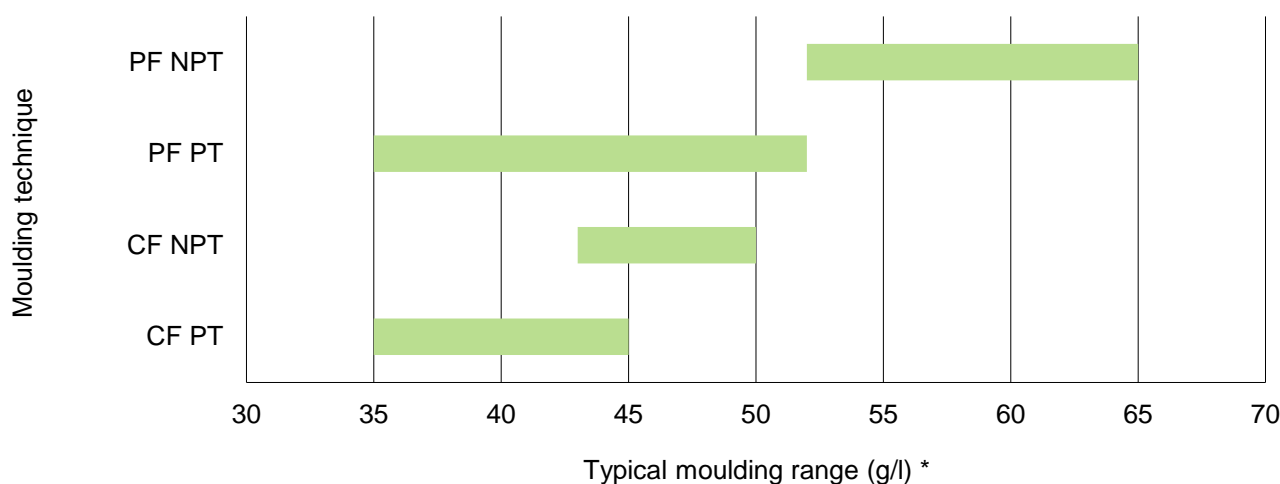
Colour	Weight (mg)	Size (mm)	Bulk density (g/l)	Packaging	Food approved
Grey	1.2	2.5 – 4.5	31.0 – 35.0	Bulk / Bag	Yes

Physical properties

	Test method	40g/l	60g/l
Compressive strength	ISO 844		
25% strain (kPa)	5mm/min	210	340
50% strain (kPa)		300	475
75% strain (kPa)		600	1,000
Tensile strength (kPa)	ISO 1798	550	760
Tensile elongation (%)		19	17
Compression set	ISO 1856 (Method C)		
25% strain – 22 hours – 23°C (%)	Stabilising 24h	11.5	11.5
Burn rate (mm/min)	ISO 3795		
	12.5mm thick	60	40
Thermal conductivity (mW/m/K)	ISO 8301-8302		
	10°C	37	40

Moulding

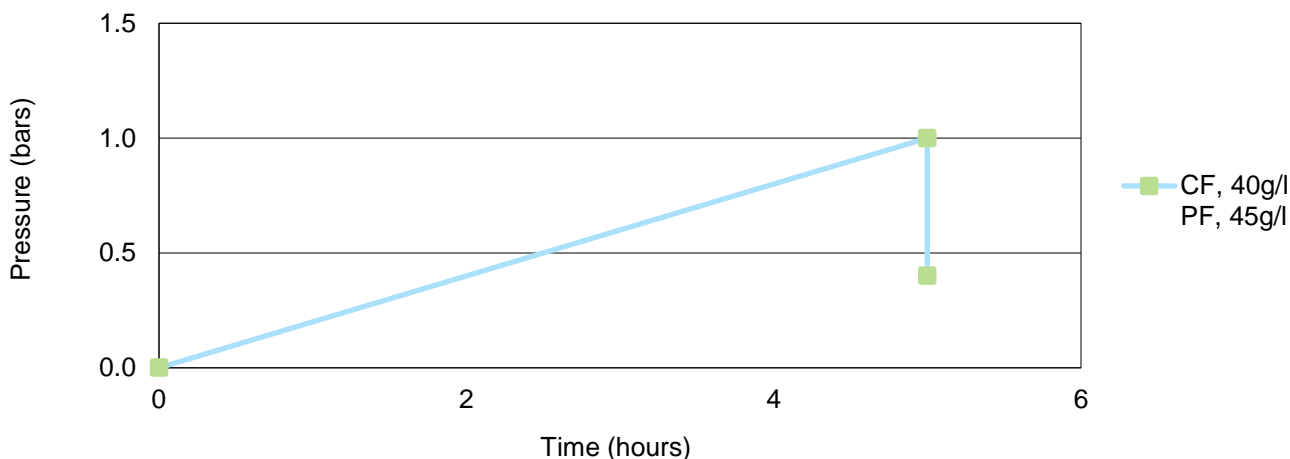
ARPRO 4133 can be moulded using Crack Fill (CF) and Pressure Fill (PF) with Pre-Treated (PT) or Non-Pre-Treated (NPT) ARPRO in both processes.



* Shrinkage, surface aspect and cycle time are influenced by process parameters, tool and equipment layout, and part geometry.

Pre-treatment

Pressure tank environment and incoming compressed air should both be at 23°C:
5 hours up to 1 bar, decrease and maintain at 0.4 bar throughout production.



Processing

Cycle can be adapted according to moulding process, density and part geometry:

If internal cell pressure is too high, this may lead to fusion issues. In this case, decrease time, pressure or temperature to improve fusion.

Increase time, pressure or temperature to reduce moulded density and improve aspect.

Operating the pressure tank above ambient temperature, up to a maximum of 50°C, significantly shortens pre-treatment time.

Post-treatment

For moulded densities below 50g/l and depending on the parts dimensions, post-treatment at a temperature of 80°C is recommended for 3 to 8 hours. This helps to remove water content, as well as ensuring dimensional stability and a geometric shape.

Shrinkage

Typical values range from 1.8% to 2.2%. The higher the moulded density, typically the lower the shrinkage.

Storage

Temperature: >15°C

Indoor storage strongly recommended.

If stored outdoors, it is strongly recommended to keep the material indoors for 24 hours before moulding.