

## Product description

Colour	Weight (mg)	Size (mm)	Bulk density (g/l)	Packaging	Food approved
Black	1.0	2.0 – 3.5	49.0 – 57.0	Bulk	No

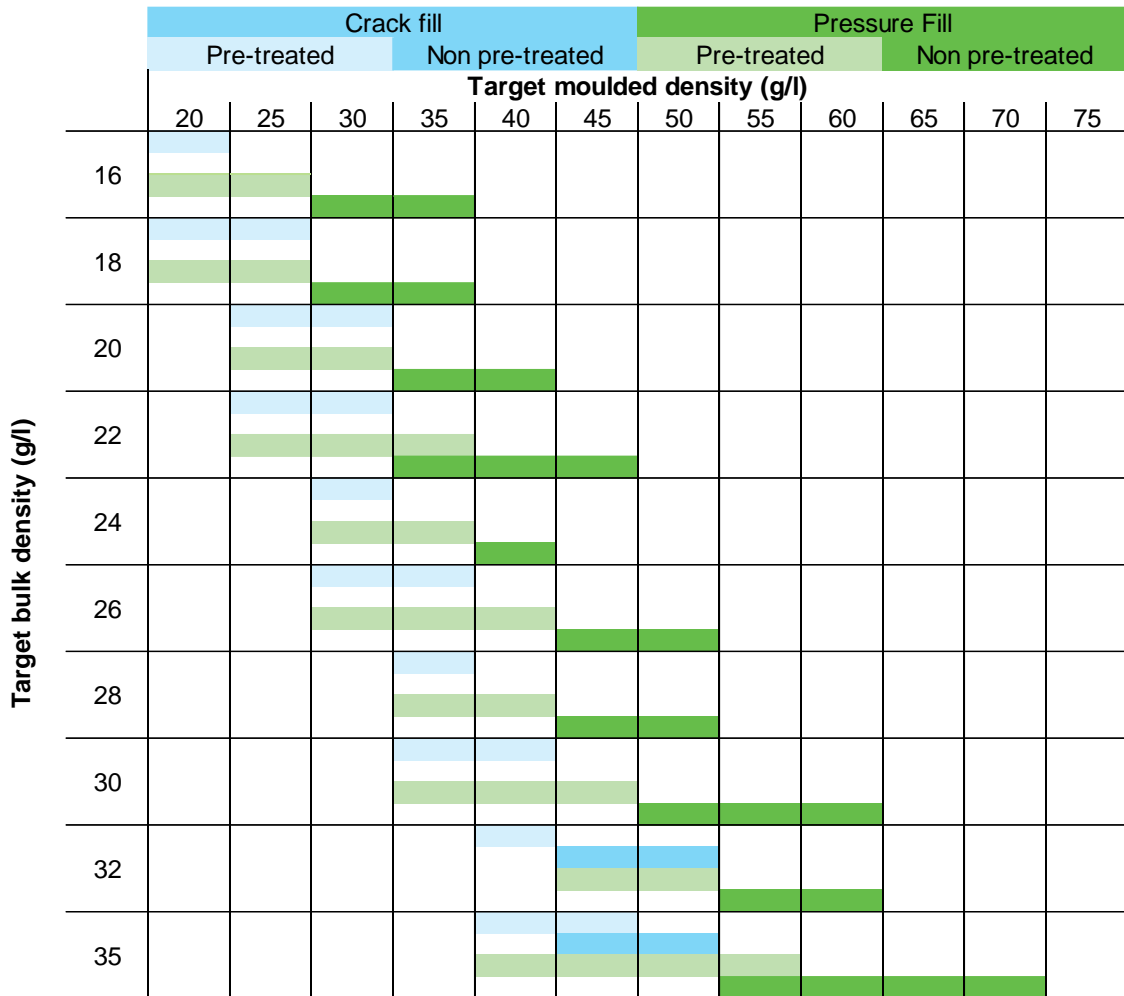
## Physical properties

	Test method	20g/l	30g/l	40g/l	50g/l	60g/l	70g/l
Compressive strength	ISO 844						
25% strain (kPa)	5mm/min	80	150	210	275	340	425
50% strain (kPa)		150	220	300	370	475	580
75% strain (kPa)		370	460	600	800	1,000	1,250
Tensile strength (kPa)	ISO 1798	340	490	640	785	930	1,070
Tensile elongation (%)		32	30	28	26	25	23
Compression set	ISO 1856 (Method C)						
25% strain – 22 hours – 23°C (%)	Stabilising 24h	12.5	12.0	11.5	11.5	11.5	11.0
Burn rate (mm/min)	ISO 3795						
	12.5mm thick	115	80	60	50	40	35

ARPRO 5253 is for on-site expansion between 16g/l and 42g/l.

## Moulding

ARPRO 5253 requires on-site expansion prior to moulding. The table below illustrates the bulk density range achievable through on-site expansion and the respective moulding process required to then achieve the target moulded density. For direct moulding of 5253 without expansion, please contact the ARPRO technical team for support.



### Pre-treatment

Pre-treatment recommendations are available in the respective ARPRO black grade sheets at ARPRO.com.

### 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.

For moulded densities above 50g/l, post-treatment is not required. Stabilisation to ambient conditions for 4 hours before dimensional quality testing is recommended.

### Shrinkage

Typical values range from 1.8% to 3.5%. 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.