

# Product Data Sheet



## rFresh-100 – Recycled HDPE Resin (Food Grade)

<b>Product Name (and Code):</b>	Polymer rHDPE rFresh-100 (3215380)
<b>Chemical description:</b>	Recycled high density polyethylene (rHDPE).
<b>Origin:</b>	HDPE dairy and beverage bottles and containers (including their closures) sourced in Australia mainly from kerbside collections.
<b>Form:</b>	Pellet, spheroid shaped.
<b>Colour:</b>	Natural (translucent white)
<b>Application:</b>	Single use food contact food and beverage packaging. May be utilised at up to 100% inclusion for applications intended for food contact.
<b>Major End Use:</b>	Extrusion, Blow Moulding, Compounding and Sheet extrusion. This product is not recommended for applications where environmental stress crack resistance (ESCR) is required.
<b>Recycling Process:</b>	Erema INTAREMA® TVE plus® and Refresher covered by US FDA PNC 2551 and LNO 237.  This product meets the requirements of US FDA 21 CFR 177.1520 (c) 2.1 when used in accordance with the US FDA application guidelines and is suitable for packaging of "All Food Types" (US FDA Table 1) for Conditions of Use E through to G (US FDA Table 2).  For food contact applications, the user must ensure final compliance of the article/s with the requirements of the appropriate US FDA regulations and local regulations that may apply.

## Physical Properties

Property	Test Method	Indicative Values	Unit
Melt flow index (@ 2.16kg/190°C)	ASTM D1238	0.30 - 0.70	g/10 min
Density	ASTM D792	0.955 - 0.965	g/cm <sup>3</sup>
Elongation at Yield	ASTM D638	29 - 33	MPa
Tensile Strength at Yield	ASTM D638	8 - 10	%
Bulk Density	ASTM D1895	550 - 700	kg/m <sup>3</sup>
Pellet size	Diameter	3.0 - 5.0	mm
Moisture	% Mass	Less than 1.0	%

Please contact your local Circular Plastics Australia PE Pty Ltd sales representative with any queries.

Indicative values shown and are not to be construed as specifications; product supplied may not conform in all respects. This information is offered solely for your consideration, investigation, and verification. In using this material, you must establish the most suitable formulation, production methods and control tests to ensure uniformity and quality of your product in compliance with all applicable laws.