

PRODUCT OVERVIEW

A UV-stabilised medium-density polyethylene compound supplied in pellet or rotational-moulding powder form, combining processability, ESCR and outdoor durability.

Base / family	Polyethylene Compounds	Primary process	Rotational moulding
Supply form	Pellets or powder	Standard colour	Natural / black / coloured

TYPICAL PROPERTIES

Property / condition	Test method	Typical value	Unit
Melt flow rate, 190°C/2.16 kg	ISO 1133-1	3.6	g/10 min
Density, 23°C	ISO 1183-1	0.939	g/cm ³
ESCR, F50, Condition A	ASTM D1693	≥ 1,000	h
Tensile stress at yield, 23°C	ISO 527-2	19	MPa
Flexural modulus, 23°C	ISO 178	825	MPa
Elongation at break, 23°C	ISO 527-2	≥ 400	%
Powder passing 500 µm	Sieve analysis	≥ 95	%
Powder below 150 µm	Sieve analysis	≤ 15	%
Powder bulk density	ASTM D1895	0.40	g/cm ³
Dry-flow time	ASTM D1895	≤ 30	s/100 g

Unless otherwise stated, standard specimen preparation and conditioning apply. Typical values are representative and are not minimum specification limits.

APPLICATIONS - Water and chemical tanks - Agricultural containers - Outdoor industrial products	KEY BENEFITS 35-mesh powder option - High ESCR - Natural and pigmented variants
--	--

PROCESSING GUIDELINES

Rotational moulding. Typical peak internal air temperature is 190-220°C. Oven cycle, cooling profile, wall thickness and venting should be optimised for the mould and machine.

Technical note: Tank and container performance depends on wall thickness, moulding cycle, venting, geometry and the intended chemical service.

PACKAGING AND STORAGE 20 or 25 kg moisture-resistant bags on pallets. Protect powder from contamination and humidity. Recommended shelf life: 12 months in unopened packaging.	REGULATORY DOCUMENTATION Current safety and grade-specific regulatory documentation is available through Technical Service for the intended application and market.
--	---

The information in this document is provided for material selection and processing guidance. Suitability for a specific design, process and end use should be confirmed by the user under actual service conditions.