

TECHNICAL DATA SHEET



Linear Low Density Polyethylene Powder for Rotational Molding

DESCRIPTION

GREENETHENE G-3938 is a Low Density Linear Polyethylene Resin (LLDPE) in powder form, additivated with antioxidants and UV stabilizers. It is suitable for Rotational Molding applications, Items produced by GREENETHENE G-3938 have a very good balance between mechanical properties and ESCR resistance. G-3938 produced in: natural, black also upon request in terracotta, fire red, yellow & blue.

APPLICATIONS

Due to its combination of mechanical properties, ESCR resistance and fluidity, GREENETHENE G-3938 is suggested for the production of wide variety of tank applications for the storage of water, chemicals & Oils. GREENETHENE G-3938 can also be used for off-shore flotation buoys and road crash barriers.

PROPERTIES

Powder Properties				
Typical Properties	Test Method	Unit	Typical Values*	
Melt Flow Index (190 °C/2.16 Kg)	ASTM D1238	gm/10 min	3.8	
Density (23 °C)	ASTM D1505	gm/cm ³	0.939	
ESCR (F-50, 10% lgepal)	ASTM D1693	hr	>500	
Vicat Softening Point	ASTM D1525	°C	118	

Product Properties*				
Typical Properties	Test Method	Unit	Typical Values*	
Tensile Strength at Yield	ASTM D638	MPa	21	
Elongation at Yield	ASTM D638	%	15	
Flexural Modulas	ASTM D790	Kg/cm ³	9000	
Hardness	ASTM D2240	D	58	

^{*}Typical characteristics are not to be taken as specification.

Typical Values refer to the base resin (natural). Median Granulometry is 50 mesh (350 microns) which goals more than 15% economy on process time.

REGULATORY INFORMATION

Greenage Industries

GREENETHENE G-3938 meets the requirement stipulated in standard IS:10141:2001 on "Specification for Polyethylene for safe use in contact with foodstuff, pharmaceuticals & Drinking Water". It also conforms to IS 12701:1996 - "Specification For Rotational Moulded Polyethylene Water Storage Tanks.".

STORAGE CONDITIONS

• Bags should be stored in dry/closed conditions at temperature below 50 °C.

CUSTOM GRADES

Different rotomoulding applications can require different grades of material. We produce customize grades by compounding different Materials and by altering the grinding specification as required. For example if you need a material that is very stiff but also flows well we can produce a high density grade with a high melt flow and we can also alter the grinding specification to enhance mouldability.



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^{*}Test specimen for product properties is 2-3.2 mm thick.