Stamford Products Limited
Bayley Street, Stalybridge
Cheshire SK15 1QQ
Telephone: 0161-330 5570 Fax: 0161-330 5576
Email: enquiry@micropol.co.uk
Web site: www.micropol.co.uk

TECHNICAL DATA SHEET

MICROSTAT ML54/FR

Microstat ML54/FR powder is designed to reduce the hazards and problems that the generation of static electricity can cause during the handling of conventional polyethylene containers. Typical static problems are dust and particle attraction, fire and explosion risks, personnel shocks and damage to sensitive electronic components stored within the container. This grade also contains a Flame Retardant additive.

Microstat ML54/FR polyethylene powder can easily be processed into containers, which are more conductive than those moulded from conventional polyethylene powders for rotational moulding. The more conductive the container, the less the static charge generated by contact and separation with other materials. Any charge that is generated can be dissipated by conduction across the container surface to earth. Induced static charge from external fields can rearrange itself on the container surface to give reduced field strength inside the container, thus shielding the contents.

Microstat ML54 polyethylene powder, rotationally moulded into containers, has been tested for electrical properties by ERA Technology Ltd. The readings of surface and volume resistivity obtained place it in the antistatic or dissipative class.

TECHNICAL SPECIFICATION

PHYSICAL PROPERTY	TEST METHOD	UNITS	VALUE
Melt Flow Index	ASTM D1238	g/10mins	5
Density	ASTM D792	g/cm³	0.935 (1.00 as FR version)
Tensile Strength at Break (50 mm/min)	ASTM D638	MPa	16
Elongation at Break	ASTM D638	%	600
Flexural Modulus	ASTM D790	MPa	500
Brittleness Temperature	ASTM D746	°C	< -70
Shore Hardness	ASTM D1706	-	66
Volume Resistivity	IEC 93	Ohm.mm	8.0×10^7
Surface Resistivity	IEC 93	Ohm	2.2×10^7

Microstat ML54/FR conforms to UL94 V2

Microstat ML54/FR is produced using Micropol's long experience of the rotational moulding process to give the powder correct particle size, shape and distribution properties for optimum moulding quality. Currently available in black only

The information given above is typical for the material.
It should only be used for the purpose of comparison and does not guarantee performance under end use conditions.