



01/2010

Rotomolding LMDPE Resins

Technical Data Sheet

**POWDERMIX LP-4135**

Linear Medium Density Polyethylene Powder for Rotational Molding

**DESCRIPTION**

POWDERMIX **LP-4135** is a Medium Density Linear Polyethylene Resin (LMDPE) in powder, additivated with antioxidants and UV stabilizers. It is suitable for Rotational Molding applications. Items produced by POWDERMIX **LP-4135** show good mechanical properties and high ESCR resistance. **LP-4135** is produced in: natural, black. Upon request in fire red, yellow.

**APPLICATIONS**

Due to its combination of good mechanical properties, high ESCR resistance and fluidity, POWDERMIX **LP-4135** is suggested for the production of high capacity containers and hardly shaped items, playground slides, solid waste tubes, small boats, canoes. Grades colored black & natural, are Food Approved.

**PROPERTIES TYPICAL**

<b>LP-4135 Resin Properties</b>	<b>Test Method</b>	<b>Typical Value</b>
Density (gr/cm <sup>3</sup> )	ASTM D 1505	0,941
Melt Flow Index (MFI)	ASTM D 1238	3,5
Melting Point (°C)		128
Brittleness Point (°C)	ASTM D 746	<-70
Vicat Softening Temperature (°C)	ASTM D 1525	118
Tensile Strength at Yield (Mpa)	ASTM D 638	19
Tensile Strength at Break (Mpa)	ASTM D 638	20
Elongation at Break (%)	ASTM D 638	>700
Flexural Modulus (Mpa)	ASTM D 790	730
Izod Impact Strength at -30 °C	ASTM D 256	70
Hardness Shore D	ASTM D 2240	55
Envir.Stress Cracking Resistance	ASTM D 1693	>500

Typical Values refer to the base resin (natural). Values are typical, depending from the lot of base resin production. Values refer to an injection molded plaque of 4 mm thickness. Values may differ in rotomolding production.