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Rotomolding LMDPE Resins

Technical Data Sheet

POWDERMIX LP-3550

Linear Medium Density Polyethylene Powder for Rotational Molding

DESCRIPTION

POWDERMIX **LP-3550** 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-3550** have a good balance between mechanical properties, flexibility and ESCR resistance. **LP-3550** is produced in: natural, black.

APPLICATIONS

Due to its combination of mechanical properties, ESCR resistance and fluidity, POWDERMIX **LP-3550** is suggested for the production of medium capacity containers and hardly shaped items, wine barrels, playgrounds, road barriers. It is NOT the right material for playground slides, solid waste tubes, small boats. Grades colored Black & Natural are Food Approved.

PROPERTIES TYPICAL

LP-3550 Resin Properties	Test Method	Typical Value
Density (gr/cm ³)	ASTM D 1505	0,935
Melt Flow Index (MFI)	ASTM D 1238	5,0
Melting Point (°C)		127
Brittleness Point (°C)	ASTM D 746	<-70
Vicat Softening Temperature (°C)	ASTM D 1525	113
Tensile Strength at Yield (Mpa)	ASTM D 638	18,0
Tensile Strength at Break (Mpa)	ASTM D 638	17,0
Elongation at Break (%)	ASTM D 638	480
Flexural Modulus (Mpa)	ASTM D 790	650
Izod Impact Strength at -30 °C	ASTM D 256	60
Hardness Shore D	ASTM D 2240	69
Envir.Stress Cracking Resistance	ASTM D 1693	>200

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.