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Rotomolding LMDPE Resins

Technical Data Sheet

POWDERMIX LP-3560

Linear Medium Density Polyethylene Powder for Rotational Molding

DESCRIPTION

POWDERMIX **LP-3560** 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-3560** have a good balance between mechanical properties, flexibility and ESCR resistance. **LP-3560** is produced in: natural, black. Upon request in terracotta, fire red.

APPLICATIONS

Due to its combination of mechanical properties, ESCR resistance and fluidity, POWDERMIX **LP-3560** 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, Terracotta & Natural, are Food Approved.

PROPERTIES TYPICAL

LP-3642 Resin Properties	Test Method	Typical Value
Density (gr/cm ³)	ASTM D 1505	0,936
Melt Flow Index (MFI)	ASTM D 1238	6,0
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	800
Flexural Modulus (Mpa)	ASTM D 790	650
Izod Impact Strength at -30 °C	ASTM D 256	60
Hardness Shore D	ASTM D 2240	57
Envir.Stress Cracking Resistance	ASTM D 1693	>250

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.