



SABIC® LLDPE MG200024

Linear low density polyethylene for masterbatch compounding

Description

SABIC® LLDPE MG200024 is a high flow linear low density polyethylene copolymer grade with a narrow molecular weight distribution. SABIC® LLDPE MG 200024 is in powder form.

Application

SABIC® LLDPE MG200024 is well suited for masterbatch applications like blow moulding, injection moulding and film extrusion. Especially for masterbatches with very high carbon black, titanium dioxide or pigment content. Since the resin is supplied in powder form, it is extremely suited for masterbatch production where PE powders are used.

Processing conditions

Typical moulding conditions for SABIC® LLDPE MG200024 are: material temperature 190 - 230 °C (380 - 450 °F).

Mechanical properties

Test specimen is prepared from compression moulded sheet made according to ASTM D-1928, procedure C.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

Typical data.

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg	g/10 min	20	ASTM D 1238
Density	kg/m³	924	ASTM D 1505
Mechanical properties			
Tensile test			ASTM D 638
stress at yield	MPa	12	
stress at break	MPa	8.5	
strain at break	%	450	
secant modulus at 1% elongation	MPa	315	
Izod impact notched at 23 °C	J/m	540	ASTM D 256
Hardness Shore D	-	55	ASTM D 2240
ESCR	h	24	ASTM D 1693
Thermal properties			
Vicat softening temperature at 10 N (VST/A)	°C	94	ASTM D 1525
Brittleness temperature	°C	<-75	ASTM D 746