

SABIC® LDPE 1965N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 1965N0 is an additive free standard CTR® tubular grade with a high flow rate for masterbatch. This grade has a high filler acceptance.

Application

SABIC® LDPE 1965N0 is a masterbatch grade typically used for injection moulding applications, where high filler acceptance and good flow properties are required.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 5 kg	205	dg/min	ISO 1133
at 190 °C and 2.16 kg	65	dg/min	ISO 1133
Melt volume rate (MVR)			
at 190 °C and 5 kg	270	ml/10 min	ISO 1133
at 190 °C and 2.16 kg	85	ml/10 min	ISO 1133
Density	919	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test ^{(1) (2)}			
stress at break	7	MPa	ISO 527-2
tensile modulus	165	MPa	ISO 527-2
strain at break	150	%	ISO 527-2
stress at yield	8	MPa	ISO 527-2
Creep modulus ^{(3) (4)}			
after 1000 hours	35	MPa	ISO 899
after 1 hour	70	MPa	ISO 899
Izod impact notched			
at 23 °C	40	kJ/m ²	ISO 180/A
at -30 °C	5.0	kJ/m ²	ISO 180/A
Hardness Shore D	40	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽⁵⁾			
at 1.80 MPa (HDT/A)	40	°C	ISO 75-2
Vicat Softening Temperature			
at 10 N (VST/A)	75	°C	ISO 306
DSC test			
melting point	104	°C	DIN 53765
enthalpy change	100	J/g	DIN 53765