



SABIC® LDPE 1965T

Low density polyethylene for Injection moulding

Description.

SABIC® LDPE 1965T is an extremely fast flowing polymer for flexible articles where mechanical properties are not critical. The material has a very low tendency to warp.

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)			ISO 1133
at 190 °C and 2.16 kg	g/10 min	65	
at 190 °C and 5 kg	g/10 min	205	
Melt volume rate (MVR)			ISO 1133
at 190 °C and 2.16 kg	ml/10 min	85	
at 190 °C and 5 kg	ml/10 min	270	
Density ¹⁾	kg/m ³	919	ISO 1183
Mechanical properties ^{1) 2)}			
Tensile test ^{3) 4)}			ISO 527-2
stress at yield	MPa	8	
stress at break	MPa	7	
strain at break	%	150	
tensile modulus	MPa	165	
Creep modulus ^{5) 6)}			ISO 899
after 1 hour	MPa	70	
after 1000 hours	MPa	35	
Izod impact notched			ISO 180/A
at 23 °C	kJ/m ²	40	
at -30 °C	kJ/m ²	5.0	
Hardness Shore D	-	40	ISO 868
Thermal properties			
Heat deflection temperature ^{1) 2)}			ISO 75-2
at 0.45 MPa (HDT/B)	°C	40	
Vicat softening temperature ^{1) 2)}			ISO 306
at 10 N (VST/A)	°C	75	
DSC test			DIN 53765
melting point	°C	104	
enthalpy change	J/g	100	