



LALEH Petrochemical Co.

LDPE 1922T

Low Density Polyethylene for Injection Moulding

Application

The grade especially developed for applications requiring a good balance between flow properties and mechanical properties, e.g. toys, houseware, snap-on lids.

1922T is a special grade produced by the tubular process.

The LPC Polyethylene are supplied in the form of pellets, in bulk or in 25 kg bags. The bags are delivered on shrink-wrapped pallets, with a total weight of 1375 kg per pallet.

Typical Data

Properties	Value	Unit	Test Method
Polymer Properties			
Density ¹⁾²⁾	919	kg/m ³	
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	22	dg/min	
at 190 °C and 5 kg	75	dg/min	
Melt Volume Rate (MVR)			
at 190 °C and 2.16 kg	29	dg/10 min	
at 190 °C and 2.16 kg	98	dg/10 min	
Mechanical Properties ²⁾			
Tensile test ³⁾⁴⁾			
Stress at yield ⁶⁾	8	MPa	
Stress at break ⁶⁾	7	MPa	
Strain at break ⁶⁾	400	%	
Tensile modulus ⁵⁾	175	MPa	
Creep modulus ⁷⁾			
after 1 hour	80	MPa	
after 1000 hour	45	MPa	
Notched Izod ³⁾⁸⁾			
at + 23 °C	42	KJ/m ²	
at - 30 °C	5	KJ/m ²	
Tensile impact test ³⁾⁹⁾			
Notched tensile impact strength	86	KJ/m ²	
Elongation at break	8.4	%	
Maximum tension	16	MPa	
Hardness Shore D ³⁾¹⁰⁾	45	-	
Ball indentation test ³⁾			
Applied load	49	N	
Ball indentation hardness	16	MPa	
ESCR ³⁾¹¹⁾	3	h	
Thermal properties			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	39	°C	
Vicat softening temperature			
at 10 n (VST/A)	82	°C	
DSC test			
Melting point ¹²⁾	105	°C	
Enthalpy change	104	J/g	

No.1335, Valiasr Ave., Vanak Sqr., Tehran. Iran, Postal Code 1969833111

Tel: + 98 21 88641690-91 Fax : + 98 21 88641692-93