

Producer: LALEH Petromical Co. Tehran / Iran

LDPE 1922T
Description:

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

Application:

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

PROPERTIES	VALUE	UNIT	TEST METHOD
Polimer Properties			
Density ¹⁾²⁾	919	k'g/cm3	
Melt Flow Rate (MFR) at 190°C and 2.16 kg / at 190°C and 5 kg	22-75	dg/min	
Melt Volume Rate (MVR) at 190°C and 2.16 kg / at 190°C and 2.16 kg	29-98	dg/10min	
Mechanical Properties ²⁾			
Tensile test ³⁾⁴⁾			
Stress at yield ⁶⁾ / Stress at break ⁶⁾	8 / 7	MPa	
Strain at break ⁵⁾	400	%	
Tensile modulus ⁵⁾	175	MPa	
Creep modulus ⁷⁾			
after 1 hour / after 1000 hour	80 / 45	MPa	
Notched Izod ³⁾⁸⁾			
at + 23°C / at - 30°C	42-5	Kj/m ²	
Tensile impact test ³⁾⁹⁾			
Notched tensile impact strength	46	Kj/m ²	
Elongation at break	8.4	%	
Maxiumum tension	16	MPa	
Hardness Shore D ³⁾¹⁰⁾	45	-	
Ball indentation test ³⁾			
Applied load	49	N	
Ball indentation test ³⁾	16	MPa	
ESCR 3)11)	3	h	
Termal 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	