

Product Description: LDPE 1922T Injection Molding

Applications: It is used for applications that require a good balance between flow properties and mechanical properties e.g. toys, household articles, clamping lids.

Typical Data:

Property	Unit	Value	Test Method
MFR* at 190°C and 2.16 kg	dg/10min	22	ISO 1133
MFR* at 190°C and 5 kg	dg/10min	75	
Density*	kg/m ³	919	ISO 1183 (A)
Formulation			
Anti oxidant**	ppm	600±60	DSM METHOD
Anti block	ppm	-	
Slip	ppm	-	
Mechanical			
Tensile Strength@ yield	MPa	8	ISO 527/2
Tensile Strength@ Break	MPa	7	ISO 527/2
Elongation@ break	%	400	
Hardness Shore D	-	45	ISO 868
ESCR	h	3	DSM Method
Tensile Modulus	MPa	175	ISO 527/2
Creep Modulus after 1h	MPa	80	ISO 899
Ball indentation hardness	MPa	16	ISO 2039-1
Izod Impact Notched	kJ/m ²	42	ISO 180/A
Thermal			
Vicat Softening Temp.	°C	82	ISO 306
Heat Deflection Temp.	°C	39	ISO 75
Melting Temp.	°C	105	DIN 53765

* The values given for MFR and Density are targeted values. This exact values are guaranteed by licensor within applicable given ranges.

** By customer request

HDPE 2100J(injection grade)

Property	Test Method	Unit	Value
Melt flow rate	ISO 1133	g/10 min.	5.8
Density	ISO 1183	kg/m ³	953
Tensile Strength at yield	ISO 527-1, -2	MPa	21
Tensile Strength at break	ISO 527-1, -2	MPa	13
Elongation at Break	ISO 527-1, -2	%	370
Charpy Impact strength	ISO 179-1	kJ/m ²	4.2
Shore hardness	ISO 868	D scale	63
Stress cracking resistance	ASTM 1693	hr	8
Melting temperature	ISO 11357	°C	131
Vicat softening temperature	ISO 306	°C	121

APPLICATION

Excellent environmental stress cracking resistance and good impact strength. General purpose and particularly suitable for enclosure materials Fenders of motorcycle, front cover of motorcycle, caps for mayonnaise bottles, caps for sauce bottles, casks for pickles, etc.



ASPC

Process OptimizationDoc
Name:

Product Data sheet - LDPE- Low Density Polyethylene

LTH 1922

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Rev: 4

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آدرس: خیابان ولی عصر، بالاتر از خیابان

ظفر، نبش کوچه شهید ناصری، پلاک ۲۵۵۱.

برج کیان، طبقه هفتم.

صندوق پستی ۸۳۹۳ - ۱۵۸۷۵

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Properties	Value	unit	Test method
Polymer Properties			
MFI (190 °C /2 .16 Kg)	22	dg/min	ISO 1133
MFI (190 °C /5 Kg)	75	dg/min	ISO 1133
MVR (190 °C /2 .16 Kg)	29	ml/10min	ISO 1133
MVR (190 °C /5 Kg)	98	ml/10min	ISO 1133
Density	919	Kg/m3	ISO 1183 (A)
Thermal Properties			
Heat deflection temperature at 0.45MPa (HDT/B)	39	°C	ISO 75
Vicat softening temperature at 10N (VST/A)	82	°C	ISO 306
Melting Point	105	°C	DIN 53765
Enthalpy change	104	j/g	DIN 53765
Mechanical properties			
Stress at yield	8	MPa	ISO 527/2
Stress at break	7	MPa	ISO 527/2
Strain at break	400	%	ISO 527/2
Tensile modulus	175	MPa	ISO 527/2
Creep modulus (After 1 hour)	80	MPa	ISO 899
Creep modulus (After 1000 hour)	45	MPa	ISO 899
Notched Izod at +23°C	42	KJ/m ²	ISO 180 A
Notched Izod at -30 °C	5	KJ/m ²	ISO 180 A
Notched Tensile impact strength	86	KJ/m ²	ISO 8256/1B
Elongation at break	8.4	%	ISO 8256/1B
Maximum Tension	16	MPa	ISO 8256/1B
Hardness Shore D	45	-	ISO 868
Ball indentation test			
Applied load	49	N	ISO 2039-1
Ball indentation hardness	16	MPa	ISO 2039-1
ESCR	3	h	SABTEC Method
Additive			
Antioxidant			

Application

LTH 1922 is specially developed for applications that require a good balance between flow properties and mechanical properties, e.g. toys, household articles, clamping lids.

General information

LTH 1922 has been manufactured using SABTEC licensed technology.

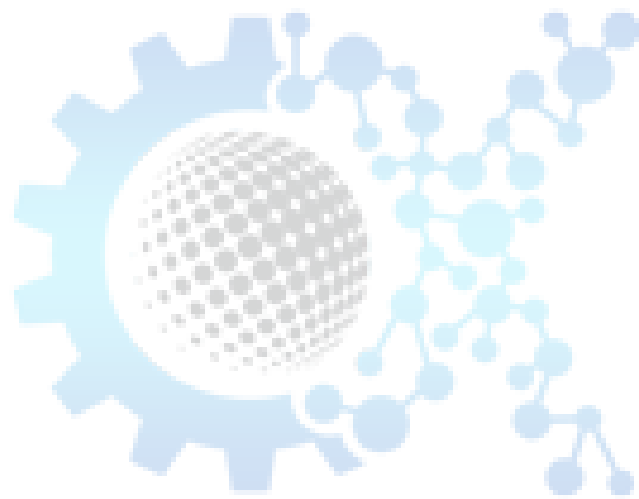
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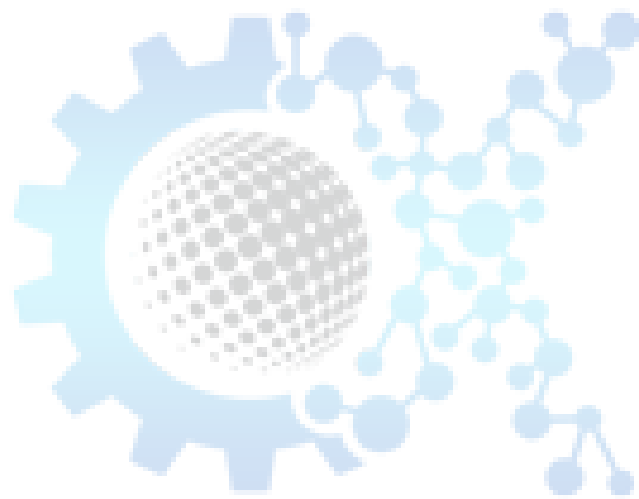
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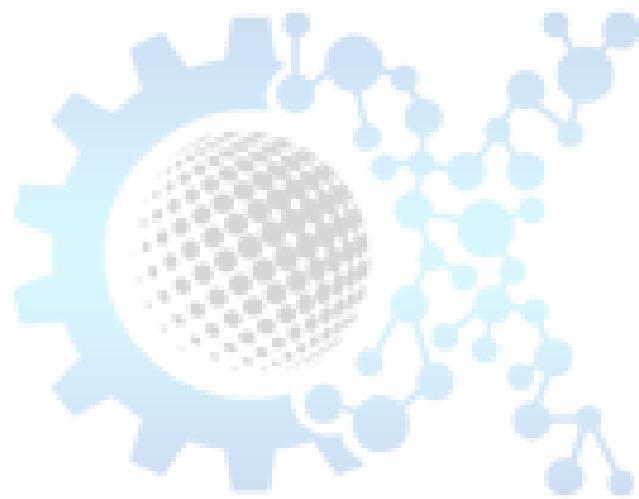
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