

**Technical Data Sheet**

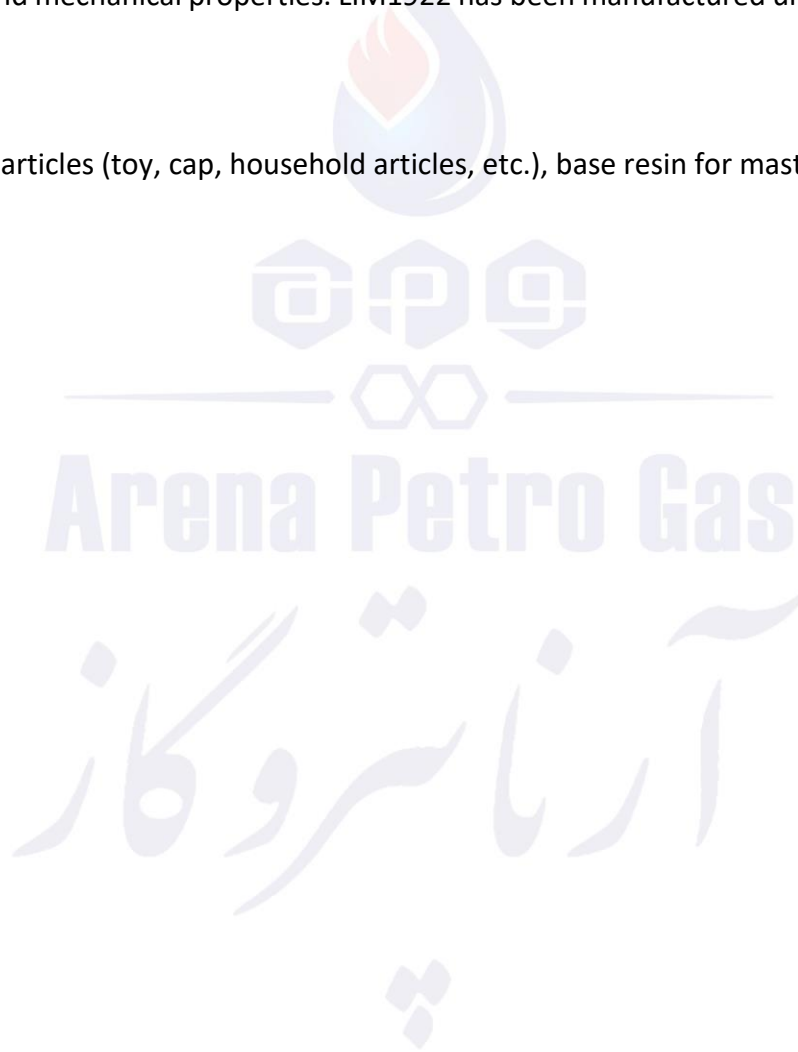
**LIM 1922**

Low Density Polyethylene

LIM1922 is a low-density polyethylene, offering a unique combination of consistent process ability, flexibility and toughness. This grade developed for applications that require a good balance between flow properties and mechanical properties. LIM1922 has been manufactured under SABTEC licensed technology.

**Applications:**

Injection molded articles (toy, cap, household articles, etc.), base resin for masterbatch



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Typical Properties	Typical Value <sup>1</sup>	Units	Test Method
<b>Physical</b>			
Melt Flow Index(190°C/2.16 kg)	22	dg/ min	ISO 1133
Density <sup>2</sup>	919	kg/m <sup>3</sup>	ISO 1183(A)
<b>Mechanical<sup>3</sup></b>			
Stress at Yield	8	MPa	ISO 527-1,2
Stress at Break	7	MPa	ISO 527-1,2
Strain at Break	400	%	ISO 527-1,2
Tensile Modulus	175	MPa	ISO 527-1,2
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 <sup>2</sup>	ISO 180A
Notched Izod at -30 °C	5	KJ/m <sup>2</sup>	ISO 180A
Tensile Impact Strength (Notched, Type 1, Method 1B, -30oC)	86	MPa	ISO 8256/1B
Hardness Shore D	45	MPa	ISO 868
Ball Indentation Hardness	16	--	ISO 2039-1
ESCR	3	g	SABTEC Method
<b>Thermal</b>			
Deflection Temperature Under Load(0.45 MPa)	39	°C	ISO 75
Vicat Softening Temperature (Method A/10N)	82	°C	ISO 306
Melting Temperature	105	°C	ISO 3146
Melting Enthalpy	104	J/g	ISO 3146
<b>Recommended Process Conditions<sup>4</sup></b>			
<b>Extruder Temperature profile: 180-210 °C</b>		<b>Mold temperature: 20-40 °C</b>	

1. Typical values: these are not to be construed as specifications.
2. The density parameter was determined on compression-molded specimens, which were prepared in accordance with procedure C of ASTM D4703, Annex A1.
3. Properties are based on compression-molded specimens, which were prepared in accordance with procedure B of ASTM D4703, Annex A1, using 100% LIM1922 resin.
4. Please note that, these processing conditions are recommended by producer only for 100 LIM1922 resin (not in the case of blending with any other compatible material), but because of the many particular factors which are outside our knowledge and control, and may affect the use of product, no warranty is given.