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ARYA SASOL POLYMER COMPANY

LOW-DENSITY POLYETHYLENE 1922

LDPE 1922 is a low-density polyethylene, offering a unique combination of consistent process-ability, flexibility and toughness. This grade developed for application that require a good balance between flow properties and mechanical properties. 1922 has been manufactured under SABTEC licensed technology.

Producer	Characteristic Properties	Applications	Additive
Arya Sasol Petrochemical	Good toughness- Easy process ability- Producing flexible injection molded articles.	Injection molded articles (toys, household articles, caps, lids, etc.)- Base resin for masterbatches	Antioxidant: Yes Antiblock : No Slip Agent :No

Typical Properties

Resin Properties	Unit	Typical Value	ASTM Method
High Load Melt Flow Index (190 °C/ 2.16 kg)	dg/min	22	ISO 1133
Density	kg/m3	919	ISO 1183
Thermal Properties	Unit	Typical Value	Test Method
Deflection Temperature Under Load (0.45 MPa)	°C	39	ISO 75
Vicat Softening Temperature (Method A/10N)	°C	82	ISO 306
Melting Temperature	°C	105	ISO 3146
Melting Enthalpy	J/g	104	ISO 3146
Mechanical Properties	Unit	Typical Value	Test Method
Stress at Yield	MPa	8	ISO 527-1, -2
Stress at Break	MPa	7	ISO 527-1, -2
Strain at Break	%	400	ISO 527-1, -2
Tensile Modulus	MPa	175	ISO 2039-1
Creep Modulus (After 1 hour)	MPa	80	ISO 899
Hardness Shore D	-	45	ISO 868