

SABIC® LDPE 2022TN00

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2022TN00 is specially developed for applications that require a good balance between flow properties and mechanical properties, e.g. toys, household articles, clamping lids.

SABIC® LDPE 2022TN00 is not suitable for food applications. The alternative for food applications is SABIC® LDPE 1922T.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Features	Good liquidity		
Uses	Cover		
	Household goods		
	Toys		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	22	g/10 min	ISO 1133
190°C/5.0 kg	75	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	29.0	cm ³ /10min	ISO 1133
190°C/5.0 kg	98.0	cm ³ /10min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	3.00	hr	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C, Molded)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	175	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 23°C, 2.00mm, molded	8.00	MPa	ISO 527-2/1BA/50
Fracture, 23°C, 2.00mm, molded	7.00	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	400	%	ISO 527-2/1BA/50
Tensile Creep Modulus ²			ISO 899-1
1 hr	80.0	MPa	ISO 899-1
1000 hr	45.0	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A

-30°C, molded	5.0	kJ/m ²	ISO 180/A
23°C, molded	42	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	39.0	°C	ISO 75-2/B
Vicat Softening Temperature	82.0	°C	ISO 306/A
Melting Temperature (DSC)	105	°C	DIN 53765
Enthalpy Change	104	J/g	DIN 53765
NOTE			
1.	2 MPa		
	thickness 4 mm, determined at 23		
2.	°C, 3 MPa		

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