

SABIC® LDPE 2008N0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2008N0 is a LDPE tubular grade without additives. SABIC® LDPE 2008TN00 is produced using SABIC Clean Tubular Reactor (CTR) Technology which ensure grades with high purity. It exhibits high toughness with good flexibility and reasonable environmental stress cracking resistance and is therefore typically used for flexibles and tough articles.

Application

SABIC® LDPE 2008N0 is typically suitable for injection moulding application, frequently used for caps & closures.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Good Flexibility		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	High Purity		
	Low Density		
Uses	Caps		
	Closures		
	Compounding		
	Masterbatch		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	7.5	g/10 min	
190°C/5.0 kg	28	g/10 min	
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	10.0	cm ³ /10min	
190°C/5.0 kg	33.0	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	40		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	130	MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield, Injection Molded	8.00	MPa	
Break, Injection Molded	10.0	MPa	

Tensile Strain (Break, Injection Molded)	120	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Injection Molded	9.0	kJ/m ²	
23°C, Injection Molded	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	43.0	°C	ISO 75-2/B
Vicat Softening Temperature	89.0	°C	ISO 306/A
Melting Temperature (DSC)	107	°C	DIN 53765
Enthalpy Change	125	J/g	DIN 53765

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

