

TOTAL Polyethylene LDPE 1070 MN 18 C

Low Density Polyethylene
TOTAL Refining & Chemicals

Message:

LDPE 1070 MN 18 C is a low density polyethylene made by a high pressure autoclave process.
Grade adapted to the production of flexible parts with a high production rate.
Application examples: caps, closures, lids, household items, master-batches.

General Information			
Uses	Composite		
	Cover		
	Shield		
	Household goods		
	Masterbatch		
	Shell		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.918	g/cm³	ISO 1183
--	920	kg/m³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ISO 1133
Melt volume-flow rate (190°C/2.16 kg)	9.00	cm³/10min	ISO 1133 ²
Water Absorption (Saturation)	0.010	%	ISO 62 ³
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	51		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	170	MPa	ISO 527-2
--	180	MPa	ISO 527-2 ⁴
Tensile Stress			
Yield	9.00	MPa	ISO 527-2
Fracture	12.0	MPa	ISO 527-2
Tensile Strain			
Yield	15	%	ISO 527-2 ⁵
Fracture	450	%	ISO 527-2
Tensile Elongation at Break	> 50	%	ISO 527-2 ⁶

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	88.0	°C	ISO 306
50°C/h, B (50N)	88.0	°C	ISO 306 ⁷
Melting Temperature (DSC)			
--	108	°C	ISO 3146
-- ⁸	107	°C	ISO 11357-3 ⁹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093 ¹⁰
Volume Resistivity	> 1.0E+13	ohms·m	IEC 60093 ¹¹
Relative Permittivity (100 Hz)	2.00		IEC 60250 ¹²
Dissipation Factor			IEC 60250 ¹³
100 Hz	2.0E-4		IEC 60250
1 MHz	2.0E-4		IEC 60250
Comparative Tracking Index	600		IEC 60112 ¹⁴
Flammability	Nominal Value	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB		ISO 1210 ¹⁵
Oxygen Index	18	%	ISO 4589-2 ¹⁶
Additional Information			
The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357.			
Injection	Nominal Value	Unit	
Mold Temperature	30.0 - 40.0	°C	
Injection Rate	Slow		
Injection instructions			
Advised Temperature Profile: 190 to 250°C Hold Pressure: 20 to 50% of injection pressure			
NOTE			
1.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
2.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
3.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
4.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
5.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
6.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
7.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
8.	10 °C/min		
9.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		

10.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
11.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
12.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
13.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
14.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
15.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
16.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

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