

SABIC® LLDPE 320NT

LINEAR LOW DENSITY POLYETHYLENE
REGION ASIA

DESCRIPTION

SABIC® 320NT is an ethylene-butene copolymer designed for wire and cable application. It is designed for high speed cable extrusion line, product use 320NT has excellent cable outlook, compare to the other polyethylene, 320NT is designed to reduce the use of additive during compounding, suggest the customer to optimize the silane and peroxide amount for 320NT based material, suitable for one-step silane crosslinking low voltage power cable insulation.

320NT contains no slip and no antiblock.

TYPICAL APPLICATIONS

Compounding for silane crosslinking low voltage power cable insulation, Compounding for halogen-free flame retardant cable, Other compounding

TYPICAL PROPERTY VALUES

Revision 20201211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	2.8	g/10 min	ASTM D1238
Density at 23°C	920	kg/m ³	ASTM D1505
FILM PROPERTIES			
Tensile Properties			
stress at yield	10	MPa	ASTM D638
stress at break	18	MPa	ASTM D638
elongation at break	650	%	ASTM D638
THERMAL PROPERTIES			
Melting Point	120	°C	SABIC method
ELECTRICAL PROPERTIES			
Dielectric Constant	2.25	-	ASTM D150
Dielectric Dissipation Factor	7x10 ⁻⁴	-	ASTM D150
Dielectric Strength	37	kV/mm	ASTM D150

STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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