

LL6428A

Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL6428A resin is a linear low density polyethylene with butene comonomers, this grade does not contain any slip and antiblock additives and designed for wire and cable applications.

Typical Applications: This grade is good flowability and suitable for one-step or two-step silane crosslinkable insulation process for Low voltage power cable insulation, Low voltage telecommunication and Low voltage power cable jacketing.

Typical Properties:

Properties	LL6428A	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	2.8	g/10 min	ASTM D1238
Density	0.918	g/cm ³	ASTM D792
Melting Temperature	121	°C	ASTM D3418
Vicat softening point	95	°C	ASTM D1525
Mechanical Properties (Based on compression specimens)			
Tensile Strength at Yield	10	MPa	ASTM D638
Tensile Strength at Break	24	MPa	ASTM D638
Elongation at Break	940	%	ASTM D638
Secant Modulus	230	MPa	ASTM D638
Durometer Hardness	47	Shore D	ASTM D2240
Electrical Properties			
Volume Resistivity (500V)	2x10 ¹⁵	Ohm.cm	ASTM D257
Dielectric Strength (500V/sec)	25	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.2	-	ASTM D150
Dissipation Factor (60 Hz)	0.003	-	ASTM D150

Recommendation:

The recommended temperature setting is in the range of 160 – 180 °C for extruder and 170 – 190 °C for die zone.