LL6420A

Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL6420A resin is a linear low density polyethylene with butene comonomers, without slip and antiblock designed for extrusion process for wire and cable applications.

Typical Applications: This grade is 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	LL6420A	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	2.0	g/10 min	ASTM D1238
Density	0.918	g/cm^3	ASTM D792
Melting Temperature	120	°C	ASTM D3418
Vicat softening point	97	°C	ASTM D1525
Mechanical Properties (Based on compression specimens)			
Tensile Strength at Yield	10	MPa	ASTM D638
Tensile Strength at Break	25	MPa	ASTM D638
Elongation at Break	900	%	ASTM D638
Secant Modulus	200	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.