

ORGALLOY® LE 6000 ST NAT

Orgalloy® LE 6000 ST NAT resin is a polyamide alloy especially designed for blown film extrusion and cable sheathing. This natural grade dedicated to extrusion offers excellent barrier properties and chemical resistance to hydrocarbons, alcohols and solvents.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	2 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	2.16 / *	kg	-
	4.76 / *	lb	
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1400	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	203000 - / 36	MPa	ISO 527-1/-2
	- / 5220	psi	
Yield strain	- / 7	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	66 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 35	kJ/m²	ISO 179/1eA
	- / 16.6	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 15	kJ/m²	ISO 179/1eA
	- / 7.14	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Vicat Softening Temperature, 50°C/h 50N	118 / *	°C	ISO 306
	244 / *	°F	
OTHER PROPERTIES			
Water Absorption	0.8 / *	%	Sim. to ISO 62
Density	1040 / 1040	kg/m³	ISO 1183
	1.04 / 1.04	g/cm³	

MAIN APPLICATIONS:

- Technical films for Bulk Molding Compound (BMC)
- Inner liner for octabin containing Expanded PolyStyrene (EPS)

ORGALLOY[®] LE 6000 ST NAT

PACKAGING:

This grade is delivered dried in sealed packaging (800kg octabin) ready to be processed.

SHELF LIFE:

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

Processing conditions:

- Drying time (only necessary for bags opened for more than two hours): 4-8 hours at 80°C
- Extrusion melt temperature (min-recommended-max): 250-260-270°C

PROCESSING Film Extrusion, Other Extrusion	
DELIVERY FORM Pellets	
ADDITIVES Lubricants	
SPECIAL CHARACTERISTICS Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	