ORGALLOY®
LE 6000 NAT

Orgalloy® LE 6000 NAT resin is a polyamide alloy especially designed for cable sheathing and blown film extrusion. This natural grade dedicated to extrusion offers excellent barrier properties and chemical resistance to hydrocarbons, alcohols and solvents. Conform to the European regulations concerning materials in contact with foodstuffs.

特性	乾燥/調湿	単位	テスト基準
レオロジー特性			
メルトボリュームレイト	2.5 / *	cm³/10min	ISO 1133
温度	235 / *	°C	-
	455 / *	°F	
荷重	2.16 / *	kg	-
	4.76 / *	lb	
成形収縮率, 平行	0.8 / *	%	ISO 294-4, 2577
成形収縮率, 直角	0.7 / *	%	ISO 294-4, 2577
機械的特性			
引張弾性率	1815 / 1400	MPa	ISO 527-1/-2
	263000 / 203000	psi	
降伏応力	44 / 36	MPa	ISO 527-1/-2
	6380 / 5220	psi	
降伏ひずみ	4 / 7	%	ISO 527-1/-2
破壊呼びひずみ	>50 / >50	%	ISO 527-1/-2
ショア硬さD, 15 s	66 / *	-	ISO 868
引張クリープ弾性率, 1h	* / 1130	MPa	ISO 899-1
	* / 164000	psi	
引張クリープ弾性率, 1000h	* / 520	MPa	ISO 899-1
	* / 75400	psi	
シャルピー衝撃強さ, +23°C	未破壊 / 未破壊	kJ/m²	ISO 179/1eU
シャルピー衝撃強さ, -30°C	未破壊 / 未破壊	kJ/m²	ISO 179/1eU
ノッチ付きシャルピー衝撃強さ, +23°C	29 / 35	kJ/m²	ISO 179/1eA
	13.8 / 16.6	ftlb/in²	
ノッチ付きシャルピー衝撃強さ, -30°C	11 / 11	kJ/m²	ISO 179/1eA
	5.23 / 5.23	ftlb/in²	
降伏応力, 平行	25 / *	MPa	ISO 527-3
	3630 / *	psi	
降伏応力, 直角	26 / *	MPa	ISO 527-3
	3770 / *	psi	
降伏ひずみ, 平行	20 / *	%	ISO 527-3

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降伏ひずみ, 直角	14 / *	%	ISO 527-3
最大応力, 平行	53 / *	MPa	ISO 527-3
	7690 / *	psi	
最大応力, 直角	41 / *	MPa	ISO 527-3
	5950 / *	psi	
最大ひずみ, 平行	410 / *	%	ISO 527-3
最大ひずみ, 直角	490 / *	%	ISO 527-3
エルメンドルフ引裂抵抗, 平行	25 / *	N	ISO 6383-2
エルメンドルフ引裂抵抗, 直角	150 / *	N	ISO 6383-2
自由落下ダート衝撃B	313 / *	g	ISO 7765-1
熱的特性			
溶融温度, 10°C/min	220 / *	°C	ISO 11357-1/-3
荷重たわみ温度, 1.80 MPa	50 / *	°C	ISO 75-1/-2
	122 / *	°F	
荷重たわみ温度, 0.45 MPa	84 / *	°C	ISO 75-1/-2
	183 / *	°F	
ビカット軟化温度, 50°C/h 50N	118 / *	°C	ISO 306
	244 / *	°F	
線膨張係数, 平行	216 / *	E-6/K	ISO 11359-1/-2
線膨張係数, 直角	170 / *	E-6/K	ISO 11359-1/-2
1.5mm厚さでの燃焼性	HB / *	class	IEC 60695-11-10
試験片の厚さ	1.6 / *	mm	-
	0.0630 / *	in	
厚さhでの燃焼性	HB / *	class	IEC 60695-11-10
試験片の厚さ	3.2 / *	mm	-
	0.1260 / *	in	
電気的特性.			
耐トラッキング性	* / 600	-	IEC 60112
その他の特性.			
吸水率, 23°C, immersion, equilibrium	7 / *	%	ISO 62
吸湿率	2.5 / *	%	ISO 62
密度	1040 / 1040	kg/m³	ISO 1183
	1.04 / 1.04	g/cm³	
機械的特性(ィルム)			
水蒸気透過度, 23°C/85%r.h.	60 / *	g/(m²*d)	ISO 15106-1/-2

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酸素透過度, 23˚ C/0%r.h.	90 / *	cm³/(m²*d*bar)	ISO 15105-1/-2
酸素透過度, 23°C/85%r.h.	90 / *	cm³/(m²*d*bar)	ISO 15105-1/-2
二酸化炭素透過度, 23°C/0%r.h.	290 / *	cm³/(m²*d*bar)	ISO 15105-1/-2
二酸化炭素透過度, 23°C/85%r.h.	290 / *	cm³/(m²*d*bar)	ISO 15105-1/-2

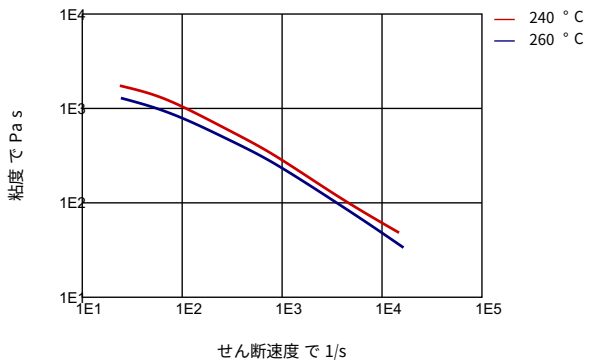
Main applications: • Hydrocarbons barrier layer for power & data cables • Food and chemical packaging

Packaging:
This grade is delivered dried in sealed packaging (25kg bags) ready to be processed.

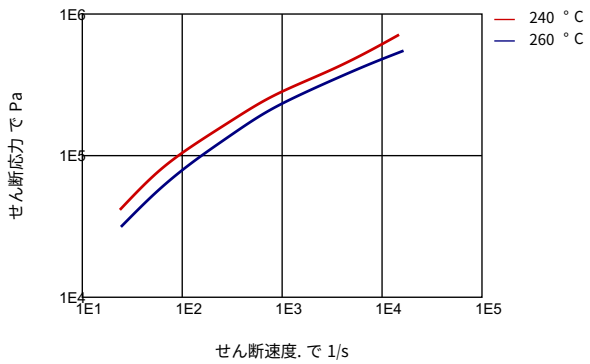
Shelf life:
Two years from the date of delivery. For any use above this limit, please refer to our technical services.

機能

粘度せん断速度.



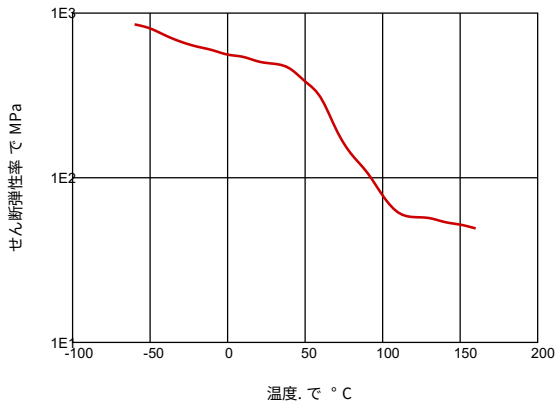
せん断応力-せん断速度.



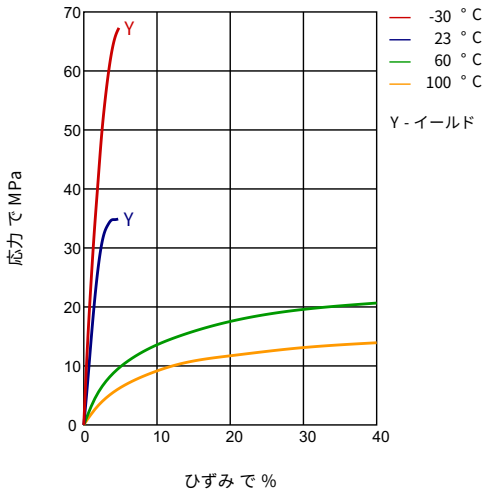
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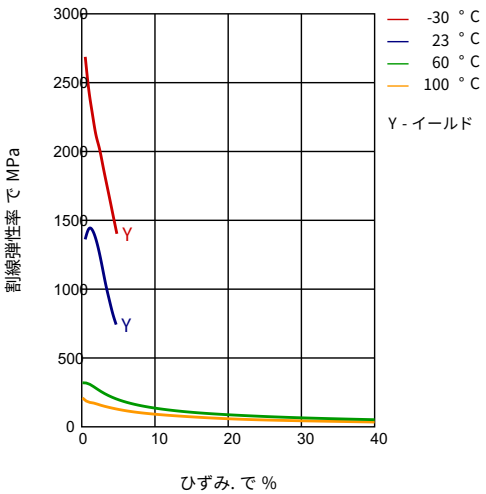
せん断弾性率-温度.



応力-ひずみ.



割線弾性率ーひずみ.



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

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成形加工法

異形押出成形，シート押出成形，その他の押出成形

納入形状

ペレット

特殊な特性

熱安定化，光安定化

領域別の利用可能性

北アメリカ.，ヨーロッパ.，アジア/太平洋地域.，
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