RILSAN®
CLEAR G850 RNEW®

PA,,GHT,C14-020
Rilsan® Clear G850 Rnew® is a high performance transparent copolyamide, partially based on renewable resources. This grade has been specially designed for injection molding applications, ideally suited for optic as high end eyewear frames.

According to ASTM D6866, the biobased carbon content is measured at 45%.

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	4.4 / *	cm³/10min	ISO 1133
温度	275 / *	°C	-
	527 / *	°F	
荷重	2.16 / *	kg	-
	4.76 / *	lb	
成形収縮率, 平行	0.9 / *	%	ISO 294-4, 2577
成形収縮率, 直角	0.9 / *	%	ISO 294-4, 2577
機械的特性			
ポアッソン比	0.393	-	-
引張弾性率	1680 / 1640	MPa	ISO 527-1/-2
	244000 / 238000	psi	
降伏応力	64 / 58	MPa	ISO 527-1/-2
	9280 / 8410	psi	
降伏ひずみ	8.2 / 8.6	%	ISO 527-1/-2
破壊呼びひずみ	>50 / >50	%	ISO 527-1/-2
破壊応力	56 / 53	MPa	ISO 527-1/-2
	8120 / 7690	psi	
破壊ひずみ	>50 / >50	%	ISO 527-1/-2
曲げ弾性率, 23°C	1560 / 1600	MPa	ISO 178
	226000 / 232000	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	8.5 / 15	kJ/m²	ISO 179/1eA
	4.04 / 7.14	ftlb/in²	
ノッチ付きシャルピー衝撃強さ, -30°C	8.6 / 11.4	kJ/m²	ISO 179/1eA
	4.09 / 5.42	ftlb/in²	
熱的特性			

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ガラス転移点, 10°C/min	145 / *	°C	ISO 11357-1/-2
	293 / *	°F	
荷重たわみ温度, 1.80 MPa	120 / *	°C	ISO 75-1/-2
	248 / *	°F	
荷重たわみ温度, 0.45 MPa	135 / *	°C	ISO 75-1/-2
	275 / *	°F	
1.5mm厚さでの燃焼性	V-2 / *	class	IEC 60695-11-10
試験片の厚さ	1.6 / *	mm	-
	0.0630 / *	in	
Yellow Card 可用	はい / *	-	-
厚さhでの燃焼性	HB / *	class	IEC 60695-11-10
試験片の厚さ	0.8 / *	mm	-
	0.0315 / *	in	
Yellow Card 可用	はい / *	-	-
その他の特性.			
%Bio-Based	45	-	ASTM D6866
吸水率, 23°C, immersion, equilibrium	4 / *	%	ISO 62
吸湿率	1.7 / *	%	ISO 62
密度	1010 / 1010	kg/m³	ISO 1183
	1.01 / 1.01	g/cm³	
光学特性			
視感透過率	92	%	ISO 13468-1, -2

Main applications:

- Sun
- Structural frames of smart phones
- optical
- Watch covers
- reading glass frames
- Household appliances

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

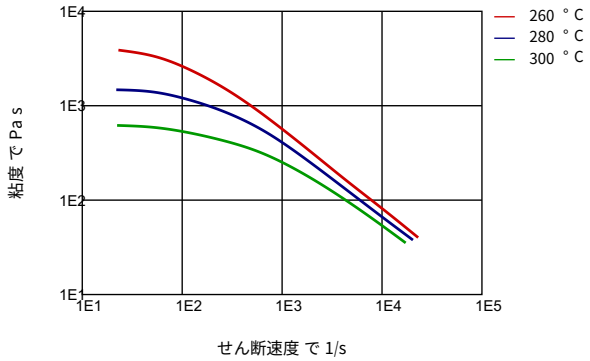
Shelf Life:
Two years from the delivery. For any use above this limit, please refer to our technical services.

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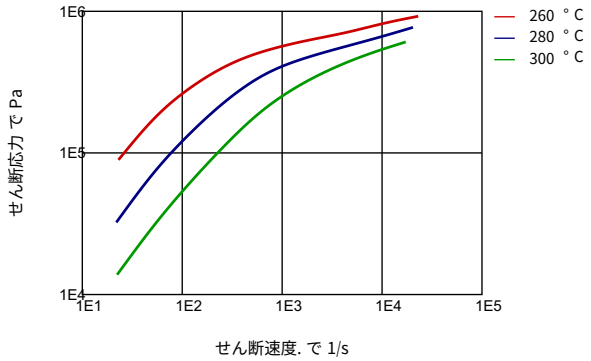
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機能

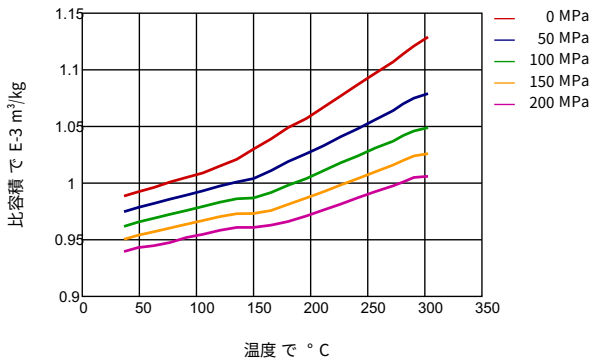
粘度せん断速度.



せん断応力-せん断速度.



PVT



Injection Process conditions:
- Typical melt temperature (Min / Recommended / Max) : 250°C / 280°C / 300°C
- Typical mold temperature : 20 - 80 °C
- Dyring time and temperature (only for bags opened for more than two hours): 4 - 6 hours at 90°C

Extrusion Process conditions:
- Typical melt temperature (Min / Recommended / Max) : 250°C / 270°C / 290°C
- Dyring time and temperature (only for bags opened for more than two hours): 4 - 6 hours at 90°C

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成形加工法

射出成形，フィルム押出成形

納入形状

ペレット

特殊な特性

バイオベース, Food Contact Approval，熱安定化，透明

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.，
南・中央アメリカ.，近東/アフリカ

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