

PEBAX[®] RNEW[®] 40R53 SP 01

Polyether block Pebax® Rnew® 40R53 SP 01 resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. This SP grade has been developed to be heat and UV resistant.

The percentage of renewable carbon measured according to ASTM D6866 is 45 %.

特性	乾燥/調湿	単位	テスト基準
レオロジー特性			
成形収縮率, 平行	0.6 / *	%	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	- / 75	MPa	ISO 527-1/-2
	- / 10900	psi	
50%ひずみ時応力	- / 8.2	MPa	ISO 527-1/-2
	- / 1190	psi	
破壊ひずみ	- / >50	%	ISO 527-1/-2
破壊ひずみ TPE	>300 / *	%	ISO 527-1/-2
破壊応力 TPE	45 / *	MPa	ISO 527-1/-2
	6530 / *	psi	
ショア硬さD, 15 s	39 / *	-	ISO 868
シャルピー衝撃強さ, +23°C	未破壊 / 未破壊	kJ/m ²	ISO 179/1eU
シャルピー衝撃強さ, -30°C	未破壊 / 未破壊	kJ/m ²	ISO 179/1eU
ノッチ付きシャルピー衝撃強さ, +23°C	未破壊 / 未破壊	kJ/m ²	ISO 179/1eA
ノッチ付きシャルピー衝撃強さ, -30°C	未破壊 / 未破壊	kJ/m ²	ISO 179/1eA
熱的特性			
熔融温度, 10°C/min	148 / *	°C	ISO 11357-1/-3
その他の特性			
%Bio-Based	45	-	ASTM D6866
吸水率, 23°C, immersion, equilibrium	1.4 / *	%	ISO 62
吸湿率	0.5 / *	%	ISO 62
密度	1030 / 1030	kg/m ³	ISO 1183
	1.03 / 1.03	g/cm ³	

Main applications:

- Flexible injected parts

Packaging:

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

Shelf Life:

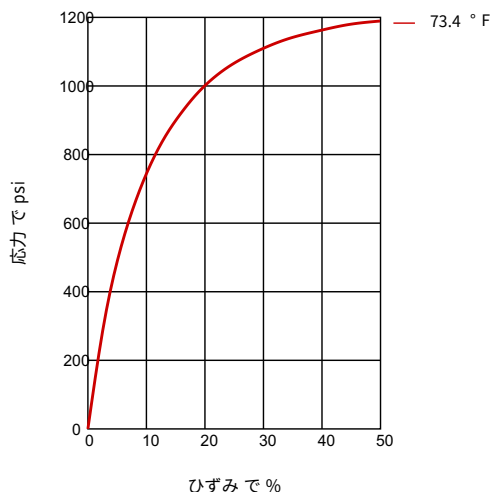
Two years from the delivery. For any use above this limit, please refer to our technical services.

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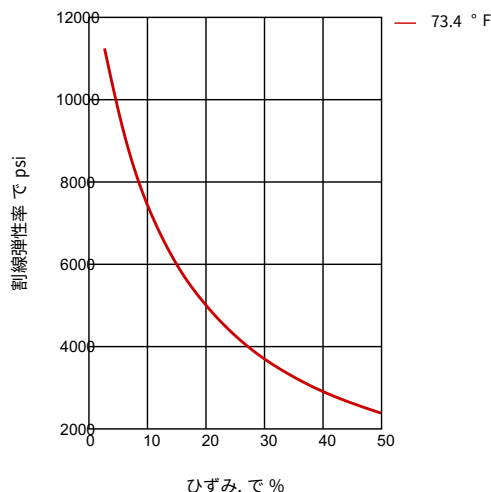
PEBAX[®] RNEW[®] 40R53 SP 01

機能

応力-ひずみ.



割線弾性率-ひずみ.



Processing conditions (injection molding):

- Typical melt temperature (Min / Recommended / Max) : 200°C / 240°C / 270°C.
- Typical mold temperature : 10 – 30°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 60-70°C.

Processing conditions (extrusion):

- Typical melt temperature (Min / Recommended / Max): 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-8 hours at 60-70°C.

成形加工法

射出成形, フィルム押出成形, 異形押出成形,
その他の押出成形, トランスファー成形, 注型, 熱成形

納入形状

ペレット

特殊な特性

バイオベース, 熱安定化, 光安定化

領域別の利用可能性

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