

PEBAX® RNEW® 30R51 SA 01

Polyether block Pebax® Rnew® 30R51 SA 01 resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources.

Pebax® Rnew® 30R51 SA 01 resin is an inherently antistatic polymer and can be dry blended or compounded with a polymer matrix to lower the surface resistivity of the final part. This grade is particularly recommended for PMMA matrices. This hydrophilic grade when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof.

The percentage of renewable carbon measured according to ASTM D6866 is 47 %.

Refractive index according to an internal method is 1.49.

特性	乾燥/調湿	単位	テスト基準
機械的特性			
引張弾性率	- / 59	MPa	ISO 527-1/-2
	- / 8560	psi	
50%ひずみ時応力	- / 7	MPa	ISO 527-1/-2
	- / 1020	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	16 / *	MPa	ISO 527-1/-2
	2320 / *	psi	
ショア硬さD, 15 s	30 / *	-	ISO 868
熱的特性			
熔融温度, 10°C/min	150 / *	°C	ISO 11357-1/-3
電気的特性			
体積抵抗率	1E8 / 1E8	Ohm* m	IEC 62631-3-1
表面抵抗率	* / 1E9	Ohm	IEC 62631-3-2
その他の特性			
%Bio-Based	47	-	ASTM D6866
吸水率, 23°C, immersion, equilibrium	72 / *	%	ISO 62
吸湿率	2.5 / *	%	ISO 62
密度	1010 / -	kg/m³	ISO 1183
	1.01 / -	g/cm³	

Main applications:

- Permanent antistatic additive for PMMA matrices
- Breathable membranes
- Note: this grade is not recommended by Arkema for usage in medical applications

Packaging:

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

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Source: automatically generated TDS from Material Database on 20-02-2024

PEBAX[®] RNEW[®] 30R51 SA 01

Shelf Life:

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

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 200°C / 240°C / 270°C.
- Typical mold temperature: 25–60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 65-75°C.

Processing conditions:

- 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): 4-6 hours at 65-75°C.

成形加工法 射出成形, その他の押出成形	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
納入形状 ペレット	
特殊な特性 帯電防止, バイオベース, 熱安定化	
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, 南・中央アメリカ, 近東/アフリカ	

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