+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)

PEBAX® RNEW® 63R53 SP 01

Polyether block **Pebax® Rnew® 63R53 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 77%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	1.3 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.2 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 245	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	355 <u>9</u> 0 - 7 19	MPa	ISO 527-1/-2
	- / 2760	psi	
Yield strain	- / 40	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Strain at Break TPE	>300 / *	%	ISO 527-1/-2
Stress at Break TPE	51 / *	MPa	ISO 527-1/-2
	7400 / *	psi	
Shore D Hardness	56 / *	-	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	- / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 22	kJ/m²	ISO 179/1eA
	- / 10.5	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	180 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Water Absorption	1.5 / *	%	Sim. to ISO 62
Humidity Absorption	0.8 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m³	ISO 1183
	1.03 / 1.03	g/cm³	
%Bio-Based	77	-	ASTM D6866



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MAIN APPLICATIONS:

· Ski shoes

· Athletic foot wear components

PACKAGING:

This grade is delivered dried in sealed packaging (20 and 25 kg bags) ready to be processed.

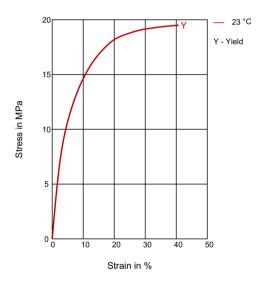
SHELF LIFE:

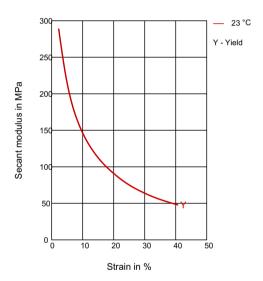
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

STRESS-STRAIN

SECANT MODULUS-STRAIN





Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 260°C / 290°C
- Typical mold temperature: 25 60°C
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-8 hours at 65-75°C

Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 210°C / 225°C / 240°C
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-8 hours at 65-75°C



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PEBAX® RNEW® 63R53 SP 01

PROCESSING	
Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion, Transfer Molding, Casting, Thermoforming	
DELIVERY FORM	
Pellets	
SPECIAL CHARACTERISTICS	
Bio-Based, Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

