

PEBAX[®] RNEW[®] 35R53 SP 01

Polyether block **Pebax® Rnew® 35R53 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 is 29%** (calculated value, based on ASTM D6866).

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
ensile Modulus	- / 40	MPa	ISO 527-1/-2
	- / 5800	psi	
tress at 50% Strain	- / 5	MPa	ISO 527-1/-2
	- / 725	psi	
Strain at Break	- / >50	%	ISO 527-1/-2
Strain at Break TPE	>300 / *	%	ISO 527-1/-2
tress at Break TPE	30 / *	MPa	ISO 527-1/-2
	4350 / *	psi	
Shore D Hardness	25 / *	-	ISO 868
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	No Break / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	No Break / No Break	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	135 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Water Absorption	1.3 / *	%	Sim. to ISO 62
Humidity Absorption	0.5 / *	%	Sim. to ISO 62
Density	1020 / 1020	kg/m³	ISO 1183
	1.02 / 1.02	g/cm³	
%Bio-Based	29	-	ASTM D6866

MAIN APPLICATIONS:

· Flexible injected parts

PACKAGING:

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





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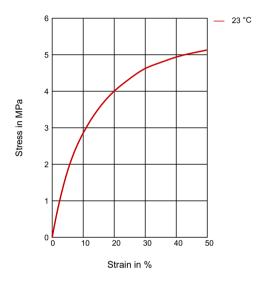
SHELF LIFE:

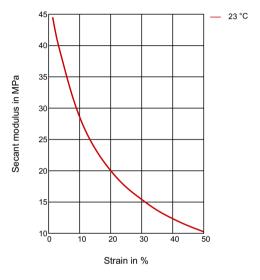
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

STRESS-STRAIN

SECANT MODULUS-STRAIN





Processing conditions (injection molding):

- Typical melt temperature (Min / Recommended / Max) : 180°C / 210°C / 260°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 55-65°C.

Processing conditions (extrusion):

- Typical melt temperature (Min / Recommended / Max): 190°C / 205°C / 220°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-8 hours at 55-65°C.





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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	

