Pebax® RNEW 35R53 SP 01

TPA

Pebax® RNEW 35R53 SP 01 resin

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 according to ASTM D 6866 is **28-32%.**

Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	**0.6 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	**- / 40**	MPa	ISO 527-1/-2
Stress at 50% strain	**- / 5**	MPa	ISO 527-1/-2
Strain at break	**- / >50**	%	ISO 527-1/-2
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	**135 / ***	°C	ISO 11357-1/-3
Vicat softening temperature, 50°C/h 50N	**81 / ***	°C	ISO 306

Other properties	dry / cond	Unit	Test Standard
Water absorption	**1.3 / ***	%	Sim. to ISO 62
Humidity absorption	**0.5 / ***	%	Sim. to ISO 62
Density	**1020 / 1020**	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
Injection Molding, melt temperature	**210**	°C	ISO 294
Injection Molding, mold temperature	**25**	°C	ISO 10724

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness, 15s	**25 / ***	-	ISO 868

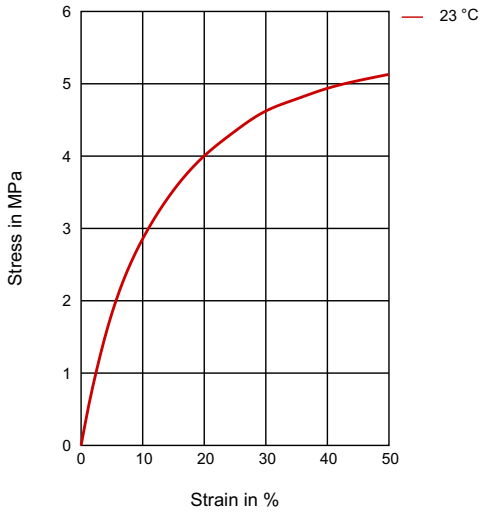
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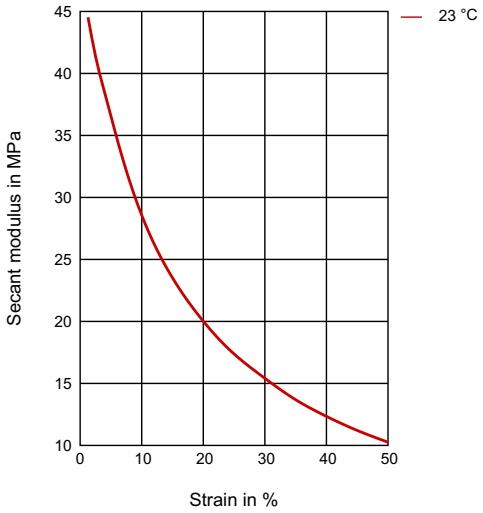
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Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion, Transfer Molding, Casting, Thermoforming

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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