

PEBAX® CLEAR 1200

Pebax® Clear 1200 resin combines a high transparency level with the excellent performance of Pebax® thermoplastic elastomer resin.

Pebax® Clear 1200 resin is produced from a renewable source.

The percentage of **renewable carbon is 90%** (calculated value, based on ASTM D6866).

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1300	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	189000 - / 43	MPa	ISO 527-1/-2
	- / 6240	psi	
Yield strain	- / 5.1	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	73 / *	-	ISO 868
Charpy Notched Impact Strength, +23°C	- / 8	kJ/m²	ISO 179/1eA
	- / 3.81	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 12	kJ/m²	ISO 179/1eA
	- / 5.71	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	180 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1030 / -	kg/m³	ISO 1183
	1.03 / -	g/cm³	
%Bio-Based	90	-	ASTM D6866
OPTICAL PROPERTIES			
Luminous Transmittance	80	%	ISO 13468-1, -2

MAIN APPLICATIONS: • Consumer goods • Sports equipment

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags).

PEBAX[®]

CLEAR 1200

SHELF LIFE:

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

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 250°C / 270°C / 290°C.
- Typical mold temperature (mirror polish to get the optimum transparency) : 50–70°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

PROCESSING	
Injection Molding	
DELIVERY FORM	
Pellets	
SPECIAL CHARACTERISTICS	
Bio-Based, Transparent	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	