

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 and has a bio-based carbon content of 94% according ASTM D6866 (measurements).

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
	- / 189000	psi	
Yield Stress	- / 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, after 15 s	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			
%Bio-Based	94	-	ASTM D6866
Density	1030 / -	kg/m³	ISO 1183
	1.03 / -	g/cm³	
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).

SHELF LIFE:

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

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

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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	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Bio-Based, Transparent	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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