WENHUA GmbH

PRODUCT DESCRIPTION

Polypropylene regranulate is a material primarily intended for injection molding of thin-walled parts and components with complex geometries. The high melt flow rate (MFR) ensures excellent mold filling at relatively low injection pressures and enables reduced cycle times. The material allows the production of lightweight parts while maintaining good dimensional stability.

It is suitable for applications where key requirements include good processability, high surface aesthetics, and precise mold replication, rather than extreme impact resistance. Typical applications include rigid packaging, thin-walled technical components, consumer goods parts, housings, closures, and components with high melt flow requirements.

TECHNICAL PROPERTIES AND PROCESSING PARAMETERS:

Parameter	Unit of Measure	Typical value	Test Method	Remarks
MFR*	[g/10min]	41	ISO 1133	220°C/10kg
Density	[g/cm^3]	0,93	ISO 1133	-
Notched Izod impact strength	[kJ/m^2]	4,7	ISO 178	23°C

Parameter	Unit of Measure	Typical value	Test Method	Remarks
Flammability	Fire rating	HB	UL 94	1,6 3,2
Processing shrinkage	%	1-2	Own	-

Processing Parameter	Unit of Measure	Typical value	Test Method	Remarks
Temperature and drying time	°C/h	80-90 /2-4	-	Hot-air dryer
	°C/h	80-90 /1-2	-	Molecular sieve desiccant dryer
Temperature for Injection Moulding	°C	180 - 220	-	-
Temprature of form	°C	20-50	-	-

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APPLICATION

PP Regranulate is a polypropylene material with properties suitable for further industrial processing. It is a thermoplastic material intended for processing by injection molding. The product is supplied in the form of granules / cut strands with a diameter of 2–4 mm. A small proportion of granules with irregular shapes or dimensions smaller than specified is permitted, provided that they do not adversely affect the processing performance.

The material composition complies with the requirements for non-food contact materials.

PACKAGING

The material is packed in big bags, which are placed on pallets with an approximate net weight of 1,000 kg per unit.

Each package is labeled with the following information: manufacturer name, product name, type/grade number, color code, batch or serial number, and net weight.

TRANSPORT

During transport, direct exposure to precipitation and prolonged exposure to UV radiation should be avoided. Transport must comply with applicable regulations for road and rail transport.

In accordance with ADR, RID, ADN, IMDG, ICAO, IATA, and UN regulations, the product is not classified as a dangerous good for transport. The product must not be transported together with organic solvents.

STORAGE

Polypropylene should be stored in dry, covered facilities, away from sources of heat and direct sunlight. The recommended storage temperature is 5–30°C. The material should remain in its original packaging until use in order to minimize the risk of moisture absorption and contamination.

The application of the FIFO (First In – First Out) principle is recommended. In the case of long-term storage or storage under conditions of increased humidity, short pre-drying of the material prior to processing is recommended in accordance with technological guidelines.

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