



TECHNICAL DATA SHEET

Edition #3_22.09.2025

NAME	Rubber Powder GreenPowder [®]
DESCRIPTION	Mix of fine rubber particles.
PRODUCTION	End-of-life tire recycling. Rubber powder is produced from clean rubber granulate (with a low content of steel, textile, and other impurities) in the modern cracker mill.
FIELDS OF APPLICATION	Bitumen and asphalt mixtures modification, construction, and the automotive industry, sport and recreation, etc.
WARRANTY	6 months, subject to compliance with the requirements of storage and warehousing.

TECHNICAL DATA

PARAMETER	The value of the parameter for the powder size		
	0-0.4 mm / 0-0.6 mm / 0-0.8 mm / 0-1.2 mm / 0.6-1.2 mm		
	I	II	III
Appearance	Loose black powder with irregularly shaped particles		
"Truck tires" content, %	> 70	30-70	< 30
Bulk density ⁽¹⁾ , kg/m ³	300-450		
Volumetric density ⁽²⁾ , kg/m ³	1100-1250		
Moisture ⁽³⁾ , %	< 2.0		
Free steel content ⁽⁴⁾ , %	< 0.05		
Free textile content ⁽⁴⁾ , %			
Other impurities ⁽⁴⁾ , %			

(1) PN-EN 1097-3:2000 Testing of mechanical and physical properties of aggregates. Determination of bulk density and void ratio

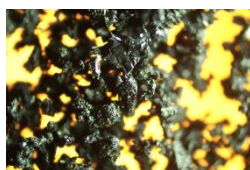
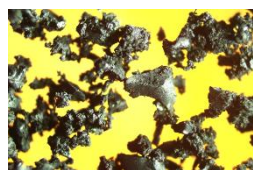
(2) PN-EN 1097-6:2002 Testing of mechanical and physical properties of aggregates. Part 6: Determination of particle density and water absorption

(3) PN-EN 1097-5:2008 Testing of mechanical and physical properties of aggregates. Part 5: Determination of water content by drying in a ventilated oven

(4) PN-EN 14243-2:2019 Materials obtained from end-of-life tires. Part 2: Granulates and powders. Methods for determining the particle size distribution and impurities, including free steel and free textile content

REACH Regulations

PAHs 8, mg/kg	< 20
SVHCs, %	< 0.1



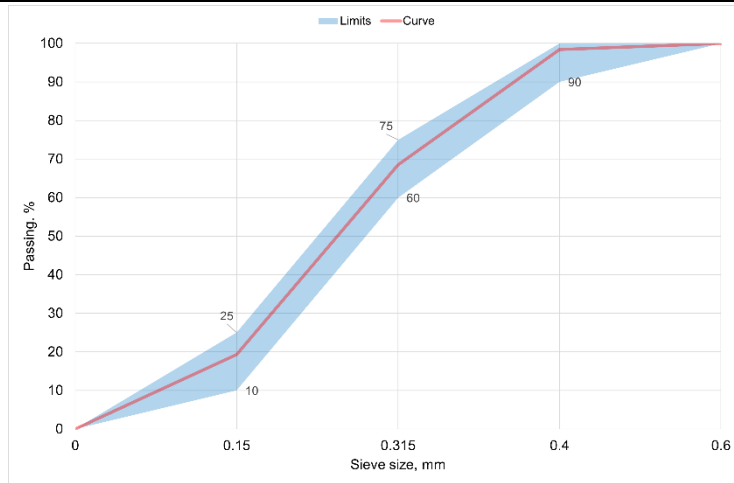
The rubber powder production technology allows obtaining a mixture of irregularly shaped particles, including partially devulcanized ones, with a high specific surface area, which may result in their physical agglomeration. This does not affect the quality of the powder; however, when assessing its particle size distribution by PN-EN 14243-2:2019, talc should be used according to the requirements of ASTM D5644-23 ⁽⁵⁾.

(5) ASTM D5644-23 Standard test method for rubber compounding materials. Determination of particle size distribution of recycled vulcanizate particulate rubber

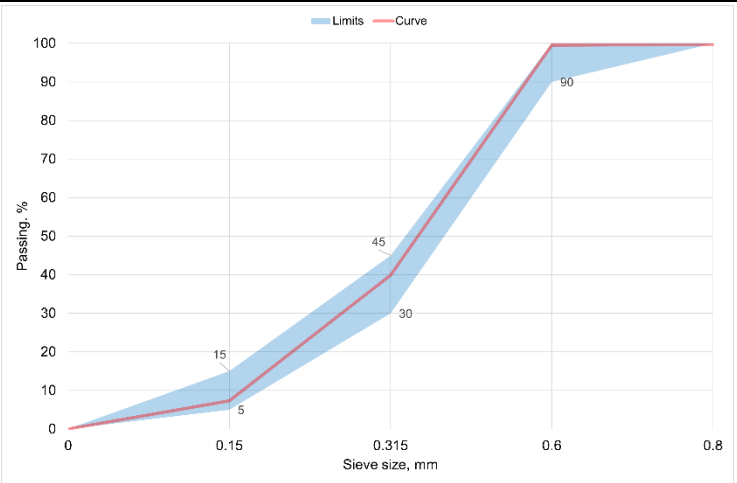
STORAGE CONDITIONS	Should be stored in a way that minimizes fire risk, degradation, and environmental contamination. Ideal storage involves a cool, dry, and well-ventilated area, protected from direct sunlight and extreme temperatures.
PACKAGING	Big Bags of 1000 kg or plastic bags of 20 kg.

SIEVE ANALYSIS – requirements and data

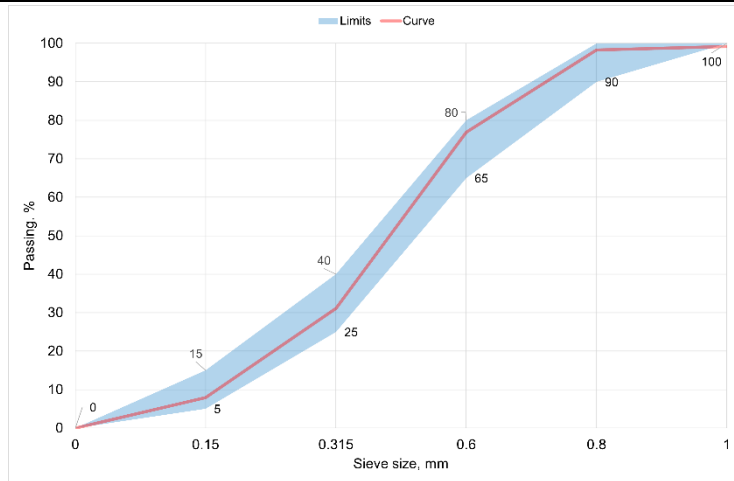
GreenPowder® 0-0.4 I/II/III



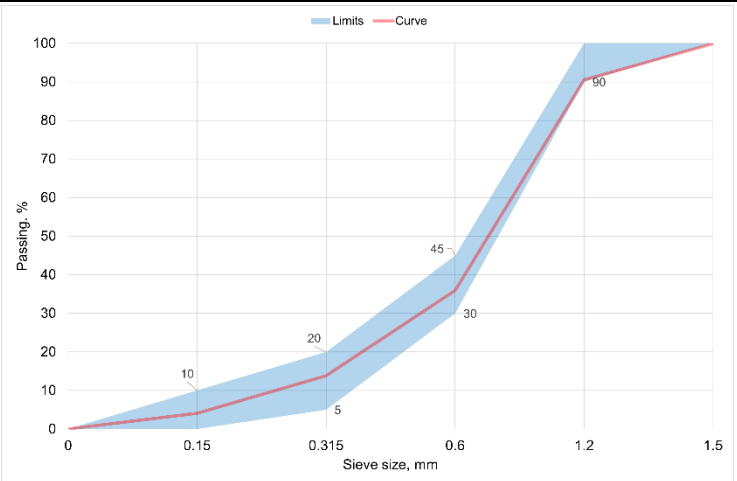
GreenPowder® 0-0.6 I/II/III



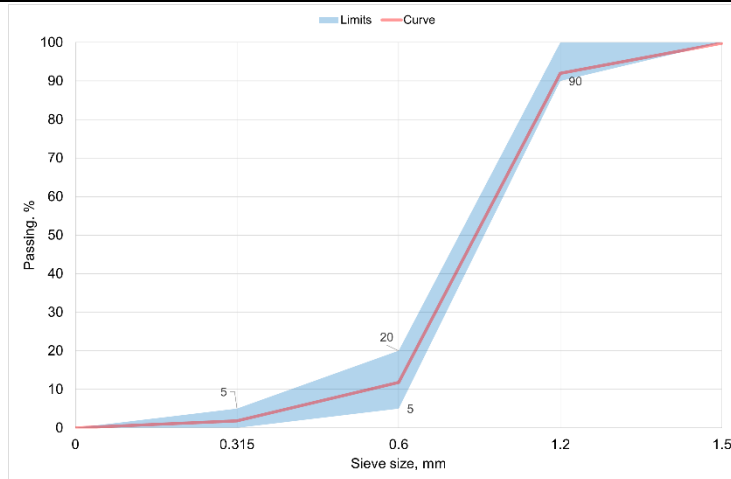
GreenPowder® 0-0.8 I/II/III



GreenPowder® 0-1.2 I/II/III



GreenPowder® 0.6-1.2 I/II/III



USEFUL INFORMATION. GreenPowder® rubber powders can be used more effectively to modify asphalt mixtures when used in combination with SMAPOL® synthetic fibers, which are also obtained from the recycling of worn tires. The use of such fibers can provide a synergistic effect when used in combination with rubber powder, thereby improving the technical, economic, and environmental efficiency of road construction projects using asphalt mixtures. The durability of such asphalt mixtures can be higher by 20-40% compared to asphalt mixtures based on conventional bitumens. It can reach the same level as asphalt mixtures on bitumens modified with SBS-type polymers, but at a lower cost.



IMPORTANT. Customers are strongly advised to perform their evaluation tests under real production conditions to ensure that the rubber powders offered, supplied, or purchased meet the requirements of their intended applications and deliver the expected performance. The information in this technical data sheet is provided only as general guidance. It is the responsibility of each customer to determine the suitability of the material for their particular use. Therefore, all risks connected with the use of this product are assumed by the customer. The outcome of an application depends on numerous factors beyond our control. For this reason, the details provided here cannot be regarded as grounds for legal claims.

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