

Recycled Granules

ORIGIN AND QUALITY

Recycled granules, that are used in the market, often come from different sources these can be subsequently distributed as unsorted (blended). Neither the EPDM products nor the technical products through Melos normally originate from recycled used material. Rather they accrue during new production, e.g. as high-grade blended material.

RECYCLING FROM TECHNICAL VIRGIN MATERIAL -**POST INDUSTRIAL***

WASHING MACHINE SEALS



RECYCLED **GRANULES TECHNICAL EPDM GREY**

0.5 - 2.5 mm

SEALS, HOSES AND SIMILAR

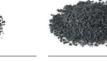


RECYCLED

GRANULES

TECHNICAL

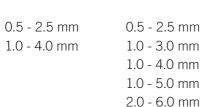
EPDM BLACK







2.0 - 8.0 mm





RECYCLED GRANULES TECHNICAL FIBRE BLACK

1.0 - 8.0 mm



RECYCLED GRANULES **TECHNICAL RUBBER POWDER**

	52
0.0 - 0.6 mm	0.0 - 0.6 mm
0.0 - 0.8 mm	0.0 - 0.8 mm















Ethylene-Propylene-Diene-Rubber is a synthetic rubber. The saturated main chain (M-Rubber) provides EPDM with excellent weather, UV and ozone resistance.

In the market "black recycling granules" are frequently referred as "SBR" and are often associated with old tyres. However, upon closer examination it makes sense to differentiate, since Styrol-Butadiene-Rubber (SBR) is a synthetic rubber with an unsaturated main chain (R-Rubber), that can be used for many applications (not merely tyres) as the basic rubber. For that reason, recycling granules are often made of a mixture of different basis ploymers. That can include SBR, EPDM and other rubbers.



^{*} All purchased post industrial products are normally sulphur-cured. However, with post industrial products the formulation does not underline Melos GmbH.

Road construction

Recycled Granules are used in road construction projetcs - there the modified asphalt is mixed and installed as low-noise asphalt or as a filler in elastic layers.



Artificial Turf

The material is used on some artificial turf systems as an elastic layer underneath the artificial turf. Another application area is the use as infill granules in artificial turf systems.

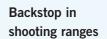


Stables, fall protection mats

Recycled Granules are used in stalls as paddock mats or as trailer coatings. They ensure good, safe footing for the animals.

Sports venue construction

Recycled Granules are often supplied as an elastic layer in sports surfacing. Here, the materials meet the required elastic and (impact) damping properties.



With its visco-elastic and forceabsorbing properties, the material is also used as a backstop in shooting areas.



Floor coverings, that come into contact with water and other fluids, are often manufactured as recycled granules to provide skid resistance in these applications.

	Products	Technical EPDM grey	Technical EPDM black	Technical SBR black	Technical Fibre black	Technical Rubber Powder EPDM and SBR
	Applications					
	Sports venue construction		•	•		
	Playgrounds, fall protection substructure		•	•	•	
-	Artificial Turf	•		•		
	Stables, fall protection mats			•		
1000	Backstop in shooting ranges	•				
0	Road construction					•
	Ship decks		•	•		

² Due to the material origin and / or fluctating composition can be subject to significant fluctuations.

Products	Technical EPDM grey	Technical EPDM black	Technical SBR black	Technical Fibre black	Technical Rubber powder EPDM and SBR
Description	Comparison with Technical Rubber Granules	Blend of Technical EPDM products	Blend of Recycled Granules	A blend of fibres and granules	Blend of Technical Rubber products
Origin	Production blend	By-products			
Typical grain size	I				
Grain size 0.0 – 0.6 mm					•
Grain size 0.0 – 0.8 mm					•
Grain size 0.5 – 2.5 mm	•	•	•		
Grain size 1.0 – 3.0 mm			•		
Grain size 1.0 – 4.0 mm		•	•		
Grain size 1.0 – 5.0 mm			•		
Grain size 1.0 – 8.0 mm			•		
Typical bulk density in g/l (approx. ± 10%) ^{1,2}	475	450	450	460	-

¹ The bulk density of a material is the weight per volume unit of the bulk material. Bulk density measured as per DIN EN ISO 60: Determination of the apparent density of moulding material that could flow through a standardised funnel.

TYPICAL GRAIN SIZE DISTRIBUTION

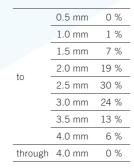
Sieve curve comparison of available products¹

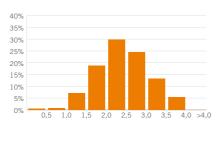
0.5 - 2.5 mm Technical EPDM grey + Technical SBR black

Iccillica	JDK BIAC	n
	0.5 mm	0 %
	1.0 mm	11 %
to	1.5 mm	29 %
	2.0 mm	35 %
	2.5 mm	20 %
through	2.5 mm	5 %



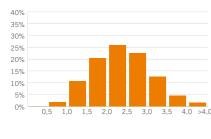
1.0 - 3.0 mm Technical SBR schwarz





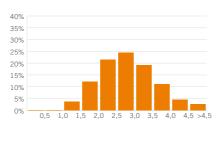
1.0 - 4.0 mm Technical EPDM black

	0.5 mm	0 %
	1.0 mm	2 %
•	1.5 mm	11 %
to	2.0 mm	20 %
to	2.5 mm	26 %
	3.0 mm	23 %
	3.5 mm	12 %
	4.0 mm	5 %
through	4.0 mm	1%



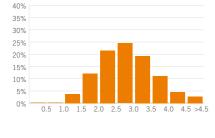
1.0 - 4.0 mm Technical SBR black

	0.5 mm	0 %
	1.0 mm	0 %
	1.5 mm	4 %
	2.0 mm	12 %
to	2.5 mm	22 %
	3.0 mm	24 %
	3.5 mm	19 %
	4.0 mm	11 %
	4.5 mm	5 %
through	4.5 mm	3 %



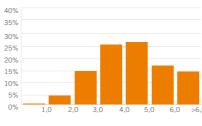
1.0 - 5.0 mm Technical SBR black

	0.5 mm	0 %
	1.0 mm	0 %
	1.5 mm	4 %
to	2.0 mm	12 %
	2.5 mm	22 %
	3.0 mm	25 %
	3.5 mm	19 %
	4.0 mm	11 %
	4.5 mm	4 %
through	4.5 mm	3 %



1.0 - 8.0 mm Technical Fibre black

		1.0 mm	0 %	40% 35%
	2.0 mm	4 %	30%	
		3.0 mm	14 %	25%
to	4.0 mm	25 %	20% 15%	
	5.0 mm	26 %	10%	
	-	6.0 mm	17 %	5%
	through	6.0 mm	14 %	3,0



¹ The bar chart of the demonstrated particle size distribution curve states the average values in mm, measured with an optical grain size measurement system in according to 13322-2.

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Two Laver

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Products

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Granules



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Type C

Jogging Track



Sandwich

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Artificial Turf





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