

TECHNICAL DATA SHEET
Rosehill TPV Colored Rubber Granules
Fully Vulcanized Virgin Material Not Recycle

GENERAL

ROSEHILL TPV® is the registered brand name. The material is produced using only the highest quality virgin polymer, antioxidants, pigments & UV stabilizers available, in accordance with ISO 9001. The product has been formulated without the incorporation of sulphur, clay fillers, heavy metals (such as zinc) and phthalate plasticizers. ROSEHILL TPV® is a 100% fully crosslinked, peroxide cured, non-porous, polypropylene-free elastomer based colored rubber with angular granule size ranging from 0.5mm – 4mm. The product is UV stable and weather resistant. It does not harden over time like some other virgin colored rubber granules it remains supple to the touch even after extremes of UV ageing and constant sunlight. Our continuous manufacturing system allows for better consistency throughout in terms of color and granular size distribution. ROSEHILL TPV® will not self-ignite nor is it flammable.

ROSEHILL TPV® is fully tested to meet internationally recognized standards for use in sports and play applications, including:
 BS 7188 (Impact absorbing playground surfacing – Performance requirements and test methods)
 BS EN 1177 (Impact attenuating playground surfacing – Determination of critical fall height)
 BS EN 14877 (Synthetic surfaces for outdoor sports areas – specification)
 IAAF Certification of Synthetic Track Products
 FIFA Quality Program for Football Turf

- Please note that system testing is the responsibility of the installer.

ROSEHILL TPV® is highly durable and can be used in children's play area safety surfacing, multi-games areas (MUGAs), general sports surfacing, swimming pool surrounds, running tracks and rubber play tile production. ROSEHILL TPV® offers excellent compatibility and adhesion with polyurethane binders and adhesives due to modification of the surface and non-porosity, can be considered for some application to allow for a lower binder consumption .

Health and Safety

ROSEHILL TPV® poses no risk towards human health and/or environment. ROSEHILL TPV® is free of toxic or carcinogenic components and is fully compliant with the following standards: ZEK 01.4-08 Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAH) in the course of GS-Mark Certification BS EN 71-3:2013 Safety of toys Part 3: Migration of certain elements For further advice please refer to the information offered in the safety data sheet (SDS) for this product.

Typical Properties

| | |
|--------------------------------------|-----------------------------|
| Appearance | Angular non-porous granules |
| Density <small>(BS ISO 2781)</small> | 1.55g/ml (± 0.05) |
| Base polymer content | >20% |
| <small>(BS EN ISO 3451-1)</small> | |
| Hardness | 65°A (±5) |
| <small>(BS ISO 7619-1)</small> | |
| Tensile strength | >3.0 MPa |
| <small>(BS ISO 37)</small> | |
| Elongation @ break | >400% |
| <small>(BS ISO 37)</small> | |

Bulk density

ROSEHILL TPV® 'INPLAY' (1-4mm) < 700g/l
 ROSEHILL TPV® 'INFILL' (0.5 - 2.5mm) < 700g/l
 ROSEHILL TPV® 'INSPORT' (0.5mm -1.5mm) for sports & spray applications = 700g/l

Available sizes

ROSEHILL TPV® 'INPLAY' (1-4mm) for sports & play ROSEHILL TPV® 'INFILL' (0.5 - 2.5mm) for grass infill
 ROSEHILL TPV® 'INSPORT' (0.5mm -1.5mm) for sports & spray applications

Sieve analysis ROSEHILL TPV® 'INPLAY' (1-4mm) for sports & play

> 4.00mm 0 – 5%
 3.35 – 4.00mm 0 – 20%
 2.36 – 3.35mm 40 – 60%
 1.70 – 2.36mm 20 – 40%
 1.00 – 1.70mm 5 – 20%
 0.50 – 1.00mm 0 – 1%
 < 0.5mm < 0.5%

ROSEHILL TPV® 'INFILL' (0.5 - 2.5mm) for grass infill

> 4.00mm 0%
 3.35 – 4.00mm 0%
 2.50 – 3.35mm 0 – 20%
 2.00 – 2.50mm 10 – 30%
 1.70 – 2.00mm 20 – 40%
 1.00 – 1.70mm 25 – 50%
 0.50 – 1.00mm 5 – 15%
 < 0.5mm 0 – 1%

ROSEHILL TPV® 'INSPORT' (0.5mm -1.5mm) for sports & spray applications

> 1.70mm < 1%
0.5 – 1.70mm > 80%
< 0.5mm < 2%

Handling

HANDLING Keep material dry at all times & out of direct UV radiation whilst in the plastic bags PACKAGING 25kg (55 lbs)
PE Bags UV resistant packed to 40 bags per 2-way wooden pallet.

Customer Notice

American Recycling Center encourages its customers to review their application of all products offered by ARC from the standpoint of human health and environmental quality.

NOTICE: The information and data contained herein do not constitute sales specifications. The product properties may be changed without notice. No liability, warranty or guarantee of product performance is created by this document. It is the Buyer's responsibility to determine whether ARC products are appropriate for Buyer's use and to ensure that Buyer's workplace and disposal practices are in compliance with applicable laws and regulations. No freedom from any patents owned by ARC or other industrial or intellectual property rights is granted or to be inferred.



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