



Roofing Granule

Data Sheet

Cool

Corona

U.S. Patent No. 7,455,899

3M Cool Roofing Granules are ceramic-coated minerals used as surfacing material in asphalt roofing products and are designed specifically to have a higher total solar reflectance than standard granules. These granules are colored with durable pigments, bonded in a ceramic matrix and treated to promote adhesion to asphalt.

Grade: (3M TM-006 or 3M TM-085)

<u>% Retained Specification</u>		<u>U.S. Sieve No.</u>	<u>Nominal Opening</u>	<u>Typical % Ranges*</u>
<u>Minimum</u>	<u>Maximum</u>			
0.0	0.1	8	2.36 mm	-
4.0	10.0	12	1.70 mm	-
-	-	16	1.18 mm	30 - 50*
-	-	20	850 µm	20 - 40*
-	-	30	600 µm	10 - 30*
-	-	40	425 µm	1 - 10*
0.0	2.0	- 40	- 425 µm	-

*Typical retained range; not covered by specification.

Total Solar Reflectance: Shipments will be ± 1.0 unit to reflectance target (3M TM067)

Dust: 0.2% Maximum <100 Mesh US Sieve (150 µm) (3M TM045)

Deoiled Color: Shipments will be ± 1.0 unit to standard for L*a*b* (3M TM007)

Moisture Content: 0.3% Maximum (3M TM057)

Color Durability: Has been proven by long-term field performance and accelerated weathering tests

Opacity: 3M Roofing Granules are opaque to protect the asphalt substrate from the effects of sunlight

Hardness: 6.0-7.0 Moh's Mineral Scale

Bulk Density: 93-99 lbs./ft.³ Packed (3M TM058)

Specific Gravity: 2.55-2.70 (3M TM001)

Colors: Various shades of white, grey, blue-grey, brown, black, and tan

Availability: 3M Industrial Mineral Products Division
Corona, California 951-737-3441, Fax 951-735-9146

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