3M™ Cool Roofing Granules (4980C, 5381C, 6680C, 7181C, 7281C, 7480C, 9380C) Corona

Product Data Sheet

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)

% Retained Specification				
Minimum	*Maximum*	*U.S. Sieve No.*	*Nominal Opening*	*Typical % Ranges*
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 meet a minimum value per the following table (3M TM067) :

Product	*Reflectivity (minimum)*
4980C	0.340
5381C	0.192
6680C	0.300
7181C	0.220
7281C	0.255
7480C	0.275
9380C	0.360

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 or 3M TM098)

Color Durability: 3M Roofing Granules primarily contain inorganic pigments which are expected to be resistant to color change. 3M Roofing Granules are routinely monitored via natural field weathering.

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: 2.55-2.75 (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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