

## 3M™ Classic Granules - #11 Grade Pittsboro

### Product Data Sheet

3M #11 Grade Roofing Granules are ceramic-coated minerals used as surfacing material in asphalt roofing products. 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.

**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:** 98-104 lbs./ft.<sup>3</sup> Packed (3M TM058)

**Specific Gravity:** 2.75-2.90 (3M TM001)

**Colors:** Various shades of Black, Brown, Buff, Green, Grey, Olive, Red, White

**Availability:** 3M Industrial Mineral Products Division  
Moncure, North Carolina, 919-642-0006, Fax 919-642-4017

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