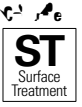


Roofing Granules



Specifically engineered for optimal embedment in the bitumen. These granules are colored with durable pigments, bonded in a ceramic matrix and treated to promote excellent long-term adhesion.



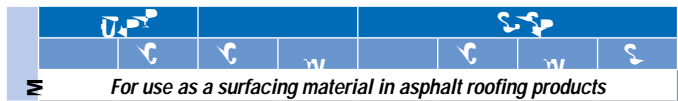
Multi-Ply



White



This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.



For use as a surfacing material in asphalt roofing products



Not for use in Single Ply systems

= Hot Applied
 = Cold Applied
 = Heat Weldable
 = Self Adhered
 = Mechanically Fastened
 = Fully Adhered
 = Ballasted

Dust	0.2% Maximum <100 Mesh US Sieve (150 mm) (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	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	90-96 lbs./ft.3 Packed (3M TM058)
Specific Gravity	2.55-2.70 (3M TM001)



MD 1

US Sieve	Nominal Size	Typical Range		
		M	M	PT
8	2.36 mm	0.0	0.1	-
12	1.70 mm	4.0	10.0	-
16	1.18 mm	-	-	30-50*
20	850 μm	-	-	20-40*
30	600 μm	-	-	10-30*
40	425 μm	-	-	1-10*
-40	-425 μm	0.0	2.0	-

*Typical range; not covered