Asphalt Shingles as it Pertains to Impact Resistance, Performance and Insurance

Cooper Robbins, Colorado Sale Representatives
Impact Resistance

UL 2218 Standard For Impact Resistance of Prepared Roof Covering Materials:

✓ Test first introduced in 1996
✓ Set to measure amount of force it will take to damage a shingle
✓ “The test evaluates the effect of impact from the steel ball at locations on the assembly selected to be vulnerable.”

<table>
<thead>
<tr>
<th>IMPACT RESISTANCE TESTING</th>
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<tbody>
<tr>
<td>Drop Height (ft)</td>
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<tr>
<td>Golfball (1.680” D)</td>
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<tr>
<td>Baseball (3” D)</td>
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Class | 1 | 2 | 3 | 4
Oxidized Asphalt
COLORADO PRODUCT OVERVIEW: NEX

NEX® POLYMER MODIFIED ASPHALT TECHNOLOGY [FORMULATION]

- HIGH-GRADE ASPHALT: Weathering, Waterproofing
- SYNTHETIC RUBBER POLYMERS (SBS): Strength, Flexibility
- UPCYCLED RUBBER POLYMERS: Elasticity, Resilience
- UPCYCLED PLASTIC POLYMERS: Strength, Durability
- NEX® ASPHALT TECHNOLOGY: Performance, Sustainability
Oxidized asphalt shingles may crack as a result of impact. Reinforced undersides will simply hide a crack. Not all impact resistant shingles reinforce equally.

Polymer Modified Asphalt technology is more flexible allowing it to recover better from impact.
Figure 8. Comparison of traditional IR and polymer modified IR shingle performance to Class 1-4 impacts. It should be noted that these IR products are rated to withstand Class 4 impacts.

Source: Insurance Institute for Business & Home Safety
Relative Impact Resistance of Asphalt Shingles:
Summary of UL 2218 Impact Tests
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The Insurance Institute for Business & Home Safety (IBHS) is an independent, nonprofit, scientific research and communications organization supported solely by property insurers and reinsurers. IBHS’s building safety research leads to real-world solutions for home and business owners, helping to create more resilient communities.

- The Insurance Institute for Business & Home Safety
Thank You!

Cooper Robbins
crobbins@malarkeyroofing.com
720.717.9979