

# Coex 3D

Portfolio coverage, product-level engineering context and comparative public manufacturer positioning.



3DPiceland Labs  
Generated with 3DPiceland Engineering Platform v70.0.4 DIRECT-IMPACT-METHODOLOGY - Izod and Charpy Methodology  
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**Public-data contract:** portfolio statistics and positions use only explicitly allowlisted MaterialIDs and existing Verified Material Summary scores. No measurement or score is recalculated.

|                               |                                    |                                      |                                      |
|-------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| Public materials<br><b>5</b>  | Product lines<br><b>2</b>          | Material types<br><b>3</b>           | With results<br><b>5</b>             |
| Complete profiles<br><b>5</b> | Average overall<br><b>46,8/100</b> | Public global rank<br><b>1 of 11</b> | Benchmark manufacturers<br><b>11</b> |

## Manufacturer overview and public global position

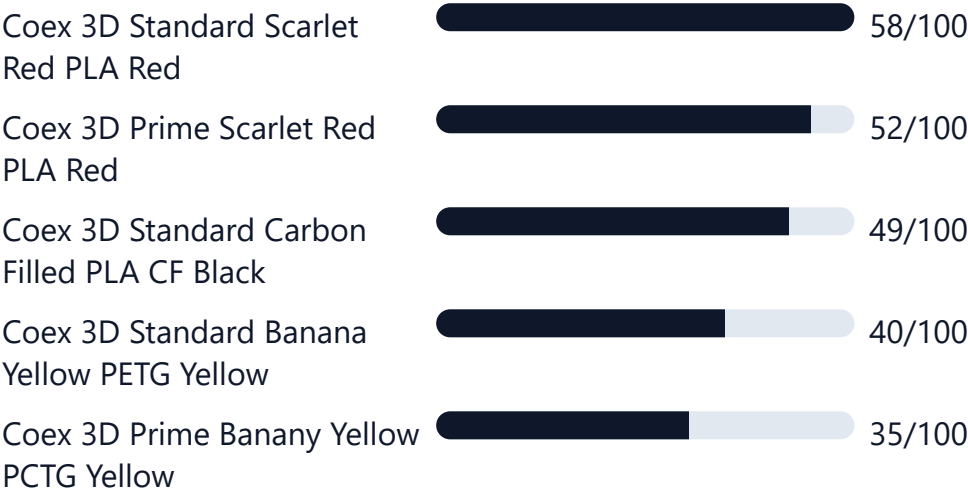
| Materials | Product lines | Types | With results | Complete | Average overall | Global rank | Portfolio leader                     | Strongest axis | With MSRP | With video |
|-----------|---------------|-------|--------------|----------|-----------------|-------------|--------------------------------------|----------------|-----------|------------|
| 5         | 2             | 3     | 5            | 5        | 46,8/100        | 1 of 11     | Coex 3D Standard Scarlet Red PLA Red | stiffness      | 5         | 0          |

Manufacturer website: [Open manufacturer website](#)

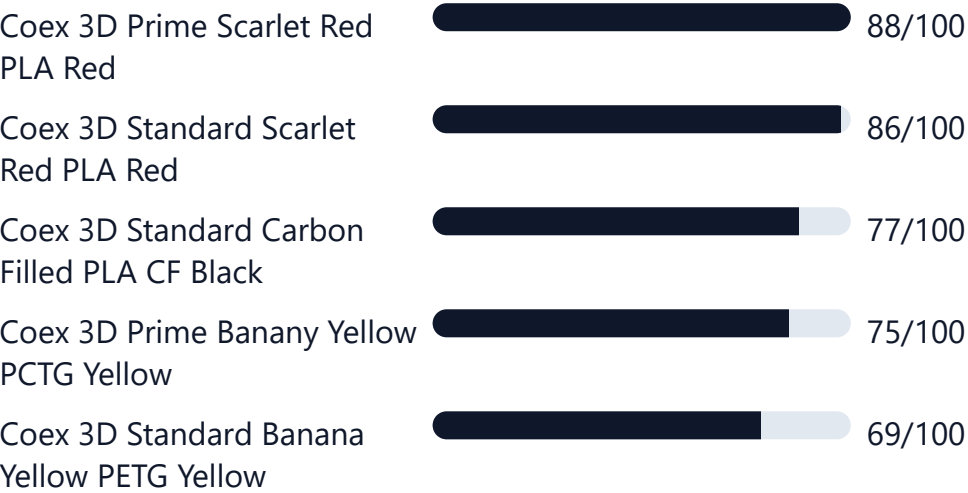
## Category position by base material

| Base material | Public manufacturer position | Average overall | Scored products |
|---------------|------------------------------|-----------------|-----------------|
| PCTG          | 2 of 2                       | 35/100          | 1               |
| PETG          | 3 of 6                       | 40/100          | 1               |
| PLA           | 1 of 6                       | 53/100          | 3               |

### Overall leaders



### Consistency leaders



## Product-level engineering context

| Material ID | Material                                    | Product line | Type | Reinforcement | Rigid coverage                                                                                                       | Engineering axes | Overall | Tensile | Impact | Izod  | Charpy | Stiffness | Consistency | Layer adhesion | Strongest axis | MSRP USD/kg | Product                      | Video |
|-------------|---------------------------------------------|--------------|------|---------------|----------------------------------------------------------------------------------------------------------------------|------------------|---------|---------|--------|-------|--------|-----------|-------------|----------------|----------------|-------------|------------------------------|-------|
| MAT0267     | Coex 3D Prime Banany Yellow PCTG Yellow     | Prime        | PCTG |               | Complete; 5/5 score families; Izod/Charpy 2/2 measured, 2/2 scored; Overall eligible; policy engineering-score-v70-1 | 7/8              | 35/100  | 27/100  | —      | 4/100 | 1/100  | 55/100    | 75/100      | 15/100         | consistency    | \$0.19      | <a href="#">Product page</a> | n/a   |
| MAT0266     | Coex 3D Standard Banana Yellow PETG Yellow  | Standard     | PETG |               | Complete; 5/5 score families; Izod/Charpy 2/2 measured, 2/2 scored; Overall eligible; policy engineering-score-v70-1 | 7/8              | 40/100  | 30/100  | —      | 2/100 | 1/100  | 61/100    | 69/100      | 38/100         | consistency    | \$0.19      | <a href="#">Product page</a> | n/a   |
| MAT0264     | Coex 3D Prime Scarlet Red PLA Red           | Prime        | PLA  |               | Complete; 5/5 score families; Izod/Charpy 2/2 measured, 2/2 scored; Overall eligible; policy engineering-score-v70-1 | 7/8              | 52/100  | 34/100  | —      | 5/100 | 3/100  | 100/100   | 88/100      | 32/100         | stiffness      | \$0.28      | <a href="#">Product page</a> | n/a   |
| MAT0268     | Coex 3D Standard Carbon Filled PLA CF Black | Standard     | PLA  | CF            | Complete; 5/5 score families; Izod/Charpy 2/2 measured, 2/2 scored; Overall eligible; policy engineering-score-v70-1 | 7/8              | 49/100  | 32/100  | —      | 6/100 | 10/100 | 100/100   | 77/100      | 30/100         | stiffness      | \$0.22      | <a href="#">Product page</a> | n/a   |
| MAT0265     | Coex 3D Standard Scarlet Red PLA Red        | Standard     | PLA  |               | Complete; 5/5 score families; Izod/Charpy 2/2 measured, 2/2 scored; Overall eligible; policy engineering-score-v70-1 | 7/8              | 58/100  | 39/100  | —      | 4/100 | 3/100  | 100/100   | 86/100      | 61/100         | stiffness      | \$0.24      | <a href="#">Product page</a> | n/a   |

Results are comparative 3DPIceland measurements and do not replace manufacturer datasheets or accredited laboratory testing.

[Testing methodology](#) · [Engineering methodology whitepaper](#) · [Download PDF](#)

Coex 3D Prime Banany Yellow PCTG Yellow

Izod and Charpy Impact Strength

Charpy Impact Strength · 2026-09-28  
Instrument readings in kJ/m²  
Mean 1.1 kJ/m²; Std. Dev 0.043 kJ/m²; CV 3.916%; Samples 10; Confidence 10  
No break 0; invalid 0; excluded 0.  
Comparative measurements; standard conformity unverified.

Izod Impact Strength · 2026-09-29  
Instrument readings in kJ/m²  
Mean 2.826 kJ/m²; Std. Dev 0.773 kJ/m²; CV 27.357%; Samples 9; Confidence 9  
No break 0; invalid 0; excluded 0.  
Comparative measurements; standard conformity unverified.

Coex 3D Standard Banana Yellow PETG Yellow

Izod and Charpy Impact Strength

Izod Impact Strength · 2026-09-29

Instrument readings in kJ/m<sup>2</sup>

Mean 1.946 kJ/m<sup>2</sup>; Std. Dev 0.245 kJ/m<sup>2</sup>; CV 12.608%; Samples 9; Confidence 9

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

Charpy Impact Strength · 2026-09-28

Instrument readings in kJ/m<sup>2</sup>

Mean 1.109 kJ/m<sup>2</sup>; Std. Dev 0.542 kJ/m<sup>2</sup>; CV 48.87%; Samples 10; Confidence 10

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

## Coex 3D Prime Scarlet Red PLA Red

### Izod and Charpy Impact Strength

Charpy Impact Strength · 2026-09-28

Instrument readings in kJ/m<sup>2</sup>

Mean 2.277 kJ/m<sup>2</sup>; Std. Dev 0.053 kJ/m<sup>2</sup>; CV 2.346%; Samples 10; Confidence 10

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

Izod Impact Strength · 2026-09-29

Instrument readings in kJ/m<sup>2</sup>

Mean 3.754 kJ/m<sup>2</sup>; Std. Dev 0.222 kJ/m<sup>2</sup>; CV 5.914%; Samples 8; Confidence 8

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

## Coex 3D Standard Carbon Filled PLA CF Black

### Izod and Charpy Impact Strength

Charpy Impact Strength · 2026-09-28

Instrument readings in  $\text{kJ/m}^2$

Mean  $7.664 \text{ kJ/m}^2$ ; Std. Dev  $2.03 \text{ kJ/m}^2$ ; CV 26.494%; Samples 10; Confidence 10

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

Izod Impact Strength · 2026-09-29

Instrument readings in  $\text{kJ/m}^2$

Mean  $5.197 \text{ kJ/m}^2$ ; Std. Dev  $0.4 \text{ kJ/m}^2$ ; CV 7.707%; Samples 8; Confidence 8

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

## Coex 3D Standard Scarlet Red PLA Red

### Izod and Charpy Impact Strength

Charpy Impact Strength · 2026-09-28

Instrument readings in  $\text{kJ/m}^2$

Mean  $2.659 \text{ kJ/m}^2$ ; Std. Dev  $0.373 \text{ kJ/m}^2$ ; CV 14.039%; Samples 10; Confidence 10

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

Izod Impact Strength · 2026-09-28

Instrument readings in  $\text{kJ/m}^2$

Mean  $3.198 \text{ kJ/m}^2$ ; Std. Dev  $0.186 \text{ kJ/m}^2$ ; CV 5.808%; Samples 10; Confidence 10

No break 0; invalid 0; excluded 0.

Comparative measurements; standard conformity unverified.

Stable public path: <reports/manufacturers/coex-3d/>

Score policy engineering-score-v70-1: Overall requires tensile, stiffness, consistency, layer adhesion and the Izod/Charpy impact family, each with equal weight. Both impact methods and configured versioned references are required. Missing results and unconfigured scores remain n/a. Legacy Impact is historical only; thermal remains separate. Engineering-axis counts describe displayed evidence, not Overall completeness.