Skip to content SolidifyModifier(Modifier)

base classes — bpy_struct, Modifier

class bpy.types.SolidifyModifier(Modifier)

Create a solid skin, compensating for sharp angles

bevel convex

Edge bevel weight to be added to outside edges

TYPE:

float in [-1, 1], default 0.0

edge_crease_inner

Assign a crease to inner edges

TYPE:

float in [0, 1], default 0.0

edge_crease_outer

Assign a crease to outer edges

TYPE:

float in [0, 1], default 0.0

edge_crease_rim

Assign a crease to the edges making up the rim

TYPE:

float in [0, 1], default 0.0

invert vertex group

Invert the vertex group influence

TYPE:

boolean, default False

material_offset

Offset material index of generated faces

TYPE:

int in [-32768, 32767], default 0

material_offset_rim

Offset material index of generated rim faces

TYPE:

int in [-32768, 32767], default 0

nonmanifold_boundary_mode

Selects the boundary adjustment algorithm

- NONE None No shape correction.
- $\bullet \quad \text{ROUND} \ \, \textbf{Round} \textbf{Round} \, \, \textbf{open perimeter shape}.$
- $\bullet \quad \mathtt{FLAT} \;\; Flat-Flat \; open \; perimeter \; shape.$

TYPE:

enum in ['NONE', 'ROUND', 'FLAT'], default 'NONE'

nonmanifold merge threshold

Distance within which degenerated geometry is merged

TYPE:

float in [0, 1], default 0.0001

nonmanifold thickness mode

Selects the used thickness algorithm

- FIXED Fixed Most basic thickness calculation.
- EVEN Even Even thickness calculation which takes the angle between faces into account.
- CONSTRAINTS Constraints Thickness calculation using constraints, most advanced.

TYPE:

```
enum in ['FIXED', 'EVEN', 'CONSTRAINTS'], default 'CONSTRAINTS'
```

offset

Offset the thickness from the center

TYPE:

```
float in [-inf, inf], default -1.0
```

rim_vertex_group

Vertex group that the generated rim geometry will be weighted to

TYPE:

```
string, default "", (never None)
```

shell_vertex_group

Vertex group that the generated shell geometry will be weighted to

TYPE:

```
string, default ", (never None)
```

solidify mode

Selects the used algorithm

- EXTRUDE Simple Output a solidified version of a mesh by simple extrusion.
- NON_MANIFOLD Complex Output a manifold mesh even if the base mesh is non-manifold, where edges have 3 or more connecting faces. This method is slower..

TYPE:

```
enum in ['EXTRUDE', 'NON MANIFOLD'], default 'EXTRUDE'
```

thickness

Thickness of the shell

TYPE:

```
float in [-inf, inf], default 0.01
```

thickness_clamp

Offset clamp based on geometry scale

TYPE:

```
float in [0, 100], default 0.0
```

thickness_vertex_group

Thickness factor to use for zero vertex group influence

TYPE:

float in [0, 1], default 0.0

use_even_offset

Maintain thickness by adjusting for sharp corners (slow, disable when not needed)

TYPE:

boolean, default False

use_flat_faces

Make faces use the minimal vertex weight assigned to their vertices (ensures new faces remain parallel to their original ones, slow, disable who not needed)

TYPE:

boolean, default False

use_flip_normals

Invert the face direction

TYPE:

boolean, default False

use_quality_normals

Calculate normals which result in more even thickness (slow, disable when not needed)

TYPE:

boolean, default False

use_rim

Create edge loops between the inner and outer surfaces on face edges (slow, disable when not needed)

TYPE:

boolean, default True

use rim only

Only add the rim to the original data

TYPE:

boolean, default False

use_thickness_angle_clamp

Clamp thickness based on angles

TYPE:

boolean, default False

vertex_group

Vertex group name

TYPE:

string, default ", (never None)

classmethod bl_rna_get_subclass(id, default=None)

PARAMETERS:

```
id(str) – The RNA type identifier.
RETURNS:
    The RNA type or default when not found.
RETURN TYPE:
    bpy.types.Struct subclass
```

classmethod bl rna get subclass py(id, default=None)

PARAMETERS:

id(str) – The RNA type identifier.

RETURNS:

The class or default when not found.

RETURN TYPE:

type

Inherited Properties

- bpy_struct.id_data Modifier.show expanded Modifier.name • Modifier.is active • Modifier.type Modifier.use_pin_to_last
- Modifier.show viewport Modifier.is override data
- Modifier.show render Modifier.use_apply_on_spline • Modifier.show in editmode • Modifier.execution time
- Modifier.show on cage • Modifier.persistent uid

Inherited Functions

- bpy_struct.as_pointer • bpy struct.driver add
- bpy_struct.driver_remove
- bpy struct.get
- bpy_struct.id_properties_clear
- bpy struct.id properties ensure
- bpy struct.id properties ui
- bpy struct.is property hidden
- bpy_struct.is_property_overridable_library bpy_struct.type_recast
- bpy struct.is property readonly
- bpy_struct.is_property_set
- bpy_struct.items

- bpy struct.keyframe delete
- bpy struct.keyframe insert
- bpy_struct.keys
- bpy struct.path from id
- bpy_struct.path_resolve
- bpy struct.pop
- bpy struct.property overridable library set
- bpy struct.property unset
- bpy struct.values
- Modifier.bl rna get subclass
- Modifier.bl rna get subclass py

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