Material Properties

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| BioTac | Name | Descriptions | Thickness | Roughness | Picture |
| Mat1 | Carpet net |  | Thin | Rough | A close up of a tree  Description automatically generated |
| Mat10 | polypropylene thin | Polypropylene (PP), also known as polypropene, is a thermoplastic polymer | Thin | Smooth | A picture containing photo, person, old, standing  Description automatically generated |
| Mat11 | soft material 1 | soft material with turquoise (greenish blue) color (textile with pattern) | Thin | Rough but soft | A close up of a brick building  Description automatically generated |
| Mat12 | cork | 100% cork (wood family). Cork is an impermeable buoyant material, the phellem layer of bark tissue that is harvested for commercial use primarily from Quercus suber | Thin | Medium rough | A picture containing rug, field, group, people  Description automatically generated |
| Mat13 | eva | Ethylene-vinyl acetate. It has some of the properties of a low-density polyethylene but increased gloss (useful for film), softness and flexibility. | Thin | Smooth | A sunset in the background  Description automatically generated |
| Mat14 | paper 1 | polyvinyl chloride (PVC), acrylic adhesive. PVC is a thermoplastic made of 57% chlorine and 43% carbon. | Thin | Smooth | A picture containing building, sitting, person, side  Description automatically generated |
| Mat15 | fiber board | Miscellaneous wood (fine tree) | Thick | Smooth | A picture containing person, riding, standing, rug  Description automatically generated |
| Mat16 | wood hard | Paulownia | Thick | Rough | A picture containing curtain, indoor, shower, sitting  Description automatically generated |
| Mat17 | styrofoam | Styrofoam is a polystyrene foam | Thick | Rough | A picture containing sitting, door, street, beach  Description automatically generated |
| Mat18 | sponge soft | soft, porous material | Thick | Rough | A blurry photo of a beach  Description automatically generated |
| Mat19 | Foam, more transparent than mat17 | Polyethylene foam is a durable, lightweight, resilient, closed-cell material. | Thick | Rough | A picture containing sitting, side, sky, person  Description automatically generated |
| Mat2 | cotton | 100 % cotton. natural fiber that comes from the seedpod of the cotton plant. | Thin | Rough but fluffy | A close up of a blue background  Description automatically generated |
| Mat20 | metal | Steel, an alloy of iron and carbon and other elements | Thick | smooth | A picture containing flying, large, air, light  Description automatically generated |
| Mat21 | light purple felt |  | Thin | Rough, soft | A picture containing standing, field, person, water  Description automatically generated |
| Mat22 | Orange foam sheet |  | Thin | Smooth, soft | A picture containing text  Description automatically generated |
| Mat23 | Green transparent file folder (cut) |  | Extra thin | Smooth | A picture containing fish, window, mirror, reflection  Description automatically generated |
| Mat24 | White grid |  | Thin | Grid pattern, soft | Background pattern  Description automatically generated |
| Mat25 | Brown wooden paper |  | Thin | Half smooth, Half soft | Background pattern  Description automatically generated |
| Mat26 | Green grid cloth |  | Thin | Small grid, soft | Background pattern  Description automatically generated |
| Mat27 | White soft plastic board |  | Extra thin | Extra smooth, reflective | A picture containing sitting, table, large, water  Description automatically generated |
| Mat28 | Same white plastic board as 30, oppo side |  | Extra thin | A bit rough | A picture containing water, person, standing, refrigerator  Description automatically generated |
| Mat29 | Blue transparent file folder (grid with ribbon) |  | Thin | Grid pattern | A picture containing standing, person, water, laying  Description automatically generated |
| Mat3 | Bath\_towel | 100% polyester microfiber. Microfiber is synthetic fiber finer than one denier or decitex/thread, having a diameter of less than ten micrometres. Polyester is very durable: resistant to most chemicals, stretching and shrinking, wrinkle resistant, mildew and abrasion resistant. | Thin | Medium rough | A close up of a rug  Description automatically generated |
| Mat30 | Purple crepe paper (multilayer) |  | Single layer very thin | Half soft, crisp | A close up of a grassy field  Description automatically generated |
| Mat31 | Grey cardboard |  | Mid thin | Hard but not too rigid | A picture containing outdoor, beach, person, standing  Description automatically generated |
| Mat32 | 232508-302025-6 wooden board |  | Mid | Hard & rigid | A close up of a sign  Description automatically generated |
| Mat33 | 214003-000011-8 arclic board |  | Mid | Hard rigid | A picture containing background pattern  Description automatically generated |
| Mat34 | Blue gauze |  | Thin | Soft, rough, circle pattern | A picture containing shower, window, door, large  Description automatically generated |
| Mat35 | Plastic grid bag w green zip |  | Mid | Half soft | A picture containing green, sitting, side, trick  Description automatically generated |
| Mat36 | White elastic belt |  | Mid | Soft, elastic | A close up of a speaker  Description automatically generated |
| Mat37 | Bright white non-elastic belt |  | Mid | Soft, non-elstic | A picture containing background pattern  Description automatically generated |
| Mat38 | Bright grey ribbon belt |  | Thin | Soft, smooth | A sign on the side of a building  Description automatically generated |
| Mat39 | Bright gold ribbon belt |  | Extra thin | Extra smooth, silky | A picture containing piece, luggage, green, sweater  Description automatically generated |
| Mat4 | leather fake | 100% Polyurethane. Bicast leather is a material made with a split leather backing covered with a layer of polyurethane (hence the term "PU leather") that is applied to the surface and then embossed | Thin | Smooth | A picture containing water, person, surfing, board  Description automatically generated |
| Mat40 | Red strap belt |  | Mid | Small linear pattern | A person in a dress shirt and tie  Description automatically generated |
| Mat41 | Griege strap belt |  | Thick | Grid pattern | A picture containing fabric, rug  Description automatically generated |
| Mat42 | Wooden board slice, label upwards |  | Thin | Smooth | A body of water  Description automatically generated |
| Mat43 | Same material as mat42, oppo side |  | Thin | Smooth with linear pattern | A picture containing background pattern  Description automatically generated |
| Mat44 | Bright yellow board, hollow in middle layer |  | Mid | Extra smooth | A picture containing water  Description automatically generated |
| Mat45 | White cform plain, label upwards |  | Mid | Smooth with tiny pattern | Background pattern  Description automatically generated |
| Mat46 | Gold-red paper, gold upwards |  | Extra thin | Extra smooth, with tiny pattern | A picture containing nature, building, photo, sitting  Description automatically generated |
| Mat47 | Gold-red paper, red upwards |  | Extra thin | Smooth, with tiny pattern | A picture containing building, brown, sitting, painted  Description automatically generated |
| Mat48 | Bright gold foil, hard |  | Extra thin | Extra smooth | A picture containing outdoor, water, person, flying  Description automatically generated |
| Mat49 | White rice paper (宣纸) |  | Mild | A bit rough | A picture containing outdoor, water, person, beach  Description automatically generated |
| Mat5 | polypropileno | polypropileno, PP, mixed colors (white, blue, dark blue) | Thin | Smooth | A close up of a logo  Description automatically generated |
| Mat50 | Green plastic-ish paper |  | Extra thin | Extra smooth | Background pattern  Description automatically generated |
| Mat6 | felt | 100% Polyester. Polyester is very durable: resistant to most chemicals, stretching and shrinking, wrinkle resistant, mildew and abrasion resistant. | Thin | Smooth | A picture containing person  Description automatically generated |
| Mat7 | soft material 2 | soft material (grey color) but harder than softMaterial1 | Thin | Rough | A close up of a brick building  Description automatically generated |
| Mat8 | Paper 2 | Japanese paper, pulp, rayon | Thin | Smooth |  |
| Mat9 | polypropileno smooth | smooth polypropileno, transient, mat for food | Thin | Smooth | A picture containing sitting, refrigerator, kitchen, snow  Description automatically generated |