Material properties

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Mat index | Name | Code-name | Descriptions | Thickness | Roughness | Picture | Object |
| mat1 | Carpet net | CP | A network of artificial fiber with vertical striped texture | thin | rough |  |  |
| mat2 | Cotton | CT | 100 % cotton. natural fiber that comes from the seedpod of the cotton plant. | thin | smooth |  |  |
| mat3 | Bath towel | BT | 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 | middle rough |  |  |
| mat4 | Leather fake | LF | 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 |  |  |
| mat5 | Polypropileno | PP | polypropileno, PP, mixed colors (white, blue, dark blue) | thin | smooth |  |  |
| mat6 | Felt | FL | 100% Polyester. Polyester is very durable: resistant to most chemicals, stretching and shrinking, wrinkle resistant, mildew and abrasion resistant. | thin | Smooth |  |  |
| mat7 | Soft material 2 | S2 | soft material (grey color) but harder than softMaterial1 | thin | rough |  |  |
| mat8 | Paper 2 | P2 | japanese paper, pulp, rayon | thin | smooth |  |  |
| mat9 | Polypropileno smooth | PS | smooth polypropileno, transient, mat for food | thin | smooth |  |  |
| mat10 | Polypropylene thin | PT | Polypropylene (PP), also known as polypropene, is a thermoplastic polymer | thin | smooth |  |  |
| mat11 | Soft material 1 | S1 | soft material with turquoise (greenish blue) color (textile with pattern) | thin | Rough but soft |  |  |
| mat12 | Cork | CK | 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 | middle rough | A close up of a rug  Description automatically generated |  |
| mat13 | Eva | EV | 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 close up of a sunset  Description automatically generated |  |
| mat14 | Paper 1 | P1 | polyvinyl chloride (PVC), acrylic adhesive. PVC is a thermoplastic made of 57% chlorine and 43% carbon. | thin | smooth | A close up of a door  Description automatically generated |  |
| mat15 | Fiber board | FB | Miscellaneous wood (fine tree) | thick | smooth | A picture containing floor, indoor, wall  Description automatically generated |  |
| mat16 | Wood hard | WH | Paulownia | thick | rough | A wooden door  Description automatically generated |  |
| mat17 | Styrofoam | SF | Styrofoam is a polystyrene foam | thick | rough | A picture containing wall, indoor  Description automatically generated |  |
| mat18 | Sponge soft | SS | soft, porous material | thick | rough | A picture containing wall, indoor  Description automatically generated | A picture containing indoor, wall, sitting, next  Description automatically generated |
| mat19 | Foam | FM | Polyethylene foam is a durable, lightweight, resilient, closed-cell material. | Thick | rough | A picture containing wall  Description automatically generated |  |
| mat20 | Metal | MT | Steel, an alloy of iron and carbon and other elements | thick | smooth | A picture containing wall, indoor  Description automatically generated |  |