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| PRODUCT INFORMATION | TYPE OF PRODUCT | Laminate |
| | COMPANY NAME | Wilsonart |
| | PRODUCT/COLLECTION NAME | Wilsonart Laminate |
| | DESCRIPTION | High pressure decorative laminate (HPDL) is commonly used as the decorative surface for residential and commercial countertops and cabinets, work surfaces, laboratory surfaces, backsplashes, partitions, retail fixtures, panel applications, furniture, built-ins, signage/displays, decorative wainscoting, walls and floors. |
| MATERIAL FEEDSTOCK | MATERIAL CONTENT | <p>Overlay (or Wear Layer) is made from alpha-cellulose wood fibers which primarily come from softwood trees.</p> <p>Decorative paper (solid colors and base papers used for print designs) use alpha cellulose because it does not discolor when exposed to heat and light. Kraft paper layers comprise soft/hard wood from FSC Controlled Wood sources and post-consumer recycled paper (similar to what is used in paper grocery bags).</p> <p>Melamine resin saturates the top layer of paper for hardness and scuff resistance. Thermoset melamine resin produces a hard chemically resistant surface that is transparent and visually stable upon exposure to light.</p> <p>Phenolic resin saturates the Kraft paper layers for strength and flexibility. Phenolic resin is a thermoset resin based on the chemistry developed for Bakelite over 100 years ago. It is derived from natural gas and petroleum products.</p> <p>Resin – 30%</p> |
| | RECYCLED CONTENT % | <p># Wilsonart Laminate contains a minimum of 20% post-consumer recycled content – the highest percentage of post-consumer content in the industry. (SCS-MC-002028)</p> <p># Wilsonart Laminate backers contain a minimum of 30% recycled content (pre- and post-consumer). (SCS-MC-002027)</p> |
| | RAPIDLY RENEWABLE CONTENT % | Primarily –Eucalyptus – 10% |
| | HARMFUL ADDITIVES | N/A |
| | HARMFUL EMISSIONS | N/A |
| | EMISSION STRENGTH OVER TIME | None |
| | TREATMENTS | High Gloss, Textured Gloss, Linearity, Fine Velvet Texture, Quarry, Matte, Fine Grain, Crystal |
| | MANUFACTURING PROCESS | <p>Sanders shut down from 2-4 pm during Energy providers peak hours. This allows for us to reduce the strain on the provider.</p> <p>Incinerator/ Boiler (sander) – Sander dust is self supporting (nothing added) for combustion. Sander dust is transferred to the boiler and converted into energy.</p> <p>About ½ of the plant runs on battery power instead of propane. (Battery charging system.) The electric advantage includes no fumes, no noise and no carbon footprint. Propane is still used where heavy lifting is required because batteries would run down too quickly if used for the heavy stuff.</p> <p>The Cyclomeiser stores the hot water and allows for its reuse after additional heat is added during the next press load. This unit also stores the cooling water and re-cools it before the next cycle begins. This increases the efficiency of energy use and closed-loop systems reuse water over and over.</p> <p>Industrial sized exhaust hoods capture fumes to minimize worker exposure volatile organic component and reduce emission in to the environment.</p> <p>Heat from the incineration of dust generated by sanding the back side of laminate, and incineration of fumes given off by the curing resins in our ovens, is used to produce steam for our laminate presses, reducing natural gas use by 30-40% annually.</p> <p>Electric Vehicle – Replacing gas powered garden tractor. This is a reduction in both fumes and noise. Used to move trash carts and make deliveries.</p> |
| HARMFUL EMISSIONS | <p>Wilsonart laminates must be bonded to a substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic Types laminate may not be used as structural members.</p> <p>Bond with adhesives and follow the techniques recommended by the</p> | |
| MANUFACTURING | | |

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| | | <p>adhesive manufacturer.</p> <p>Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions.</p> |
| | LOCATION OF MANUF. PLANT | A new plant, located in Fletcher, North Carolina, was added in 1979 to meet increasing demand for product. |
| | TESTS/CODES | Has the material met the testing requirements for certifications? |
| | 3RD PARTY CERTIFICATION | <p>Wilsonart can provide FSC solutions to our customers – we are the first laminate company to obtain FSC certification in the industry. (SCS-COC-002415)</p> <p>Low Emitting Materials: Wilsonart Laminate exceeds the industry's highest standards for Indoor Air Quality, with GREENGUARD® Certification on all laminate types.</p> <p>Industry Certifications SCS FSC NSF UL GREENGUARD Indoor Air Quality Certification GREENGUARD Children and Schools Certification</p> |
| INSTALLATION | INSTALLATION PROCEDURE | <p>Wilsonart laminates must be bonded to a substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic Types laminate may not be used as structural members.</p> <p>Bond with adhesives and follow the techniques recommended by the adhesive manufacturer.</p> <p>Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions.</p> |
| | INSTALLATION ADHESIVES | Not Specified |
| | UNIT COST | Not Specified |
| | LIFE CYCLE ANALYSIS EXTRACTION | Not Specified |
| | END OF SERVICE LIFE | <p>All untreated scrap kraft paper and spools from decorative and kraft paper is diverted to recycled paper mills.</p> <p>Laminate scrap is ground, bagged and sold to the oil industry as a drilling fluid additive, which prevents the loss of this potentially contaminating fluid into the earth.</p> <p>Scrap metal from aging equipment and maintenance functions is recycled into angle iron and rebar.</p> <p>Aluminum foil still used in some Laminate texturing is recycled into other aluminum sheet products.</p> <p>Use of reusable stainless steel plates in lieu of aluminum foil for laminate surface texturing has nearly eliminated the need for aluminum foil.</p> <p>Folded paper – padding goes between carrier and 1st press plates during laminate manufacture. This is reused several times and then recycled to ultimately be made into more paper or packaging boxes.</p> <p>Metal shipping cart/pallet – replaces certain wooden shipping pallets and can be reused thousands of times.</p> <p>Temple South – cleanse and refurbish hydraulic oil (Kaydon machine). Hydraulic oil is used for presses and most of our equipment throughout the plant use hydraulic oil.</p> <p>Used oil filters for the truck fleet are crushed before shipment to a recycling center.</p> <p>Recycle oil and Freon - Motor oil from the truck fleet is sent for recycling. Freon from the air conditioning systems is captured and reused when maintenance is required on those units.</p> <p>These recycled paper products have been incorporated into Wilsonart products without sacrificing product performance or quality.</p> <p>Recycled Kraft usage 2001-2008 (Increased from 2%-30% in eight years) >30% of Kraft paper is from recycled sources.</p> |
| MISC. PROPERTIES | QUALITIES/PROPERTIES OF PRODUCT | Use for vertical or light horizontal use only. |
| | MISC. COMMENTS | All untreated scrap kraft paper and spools from decorative and kraft paper is diverted to recycled paper mills. |
| | CONTRIBUTION TO LEED | USGBC LEED Credits may be obtained through use of Wilsonart Laminate |

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| | POINTS | <p>in these areas:</p> <p>IEQ 4.4 Indoor Air Quality</p> <p>IEQ 4.5 Indoor Air Quality</p> <p>MR 4 Recycled Content</p> <p>MR 5 Regional Materials (manufactured at Temple, TX and Ashville, NC)</p> <p>MR 6 Rapidly Renewable Resources</p> <p>MR 7 Responsible Forest Management</p> |
| COMPANY PROFILE | GREEN PHILOSOPHY | <p>We believe our job as a manufacturer and a citizen of our planet is to contribute to the success and quality of life of our customers and community. Wilsonart and our employees are supporters of many community programs through financial support, in-kind donations, volunteerism and more.</p> |
| | CONTACT | <p>1.800.433.3222</p> <p>Wilsonart International, Inc.</p> <p>2400 Wilson Place</p> <p>P.O. Box 6110</p> <p>Temple, Texas 76503-6110</p> <p>smartline@wilsonart.com.</p> |
| MAINTENANCE | AFTER INSTALLATION | Warm water and soap |