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|  | |  | | --- | | **Simulazione di prova piattaforma**  **Data: lunedì 24 marzo 2025 Designer: Solidworks**  **Nome studio: SimulationXpress Study**  **Tipo di analisi: Analisi statica** | | Sommario  [Descrizione 1](#_Toc193718912)  [Presupposti 2](#_Toc193718913)  [Informazioni sul modello 2](#_Toc193718914)  [Proprietà materiale 3](#_Toc193718915)  [Carichi e fissaggi 3](#_Toc193718916)  [Informazioni relative al mesh 4](#_Toc193718917)  [Risultati studio 6](#_Toc193718918)  [Conclusione 8](#_Toc193718919) | |
| Descrizione Dati non disponibili |

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| Presupposti |

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| Informazioni sul modello  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   ****Nome del modello:** prova piattaforma**  ****Configurazione corrente:** Default** | | | | | ****Corpi solidi**** | | | | | ****Nome documento e Riferimento**** | ****Trattato come**** | ****Proprietà volumetriche**** | ****Percorso/Data documento modificati**** | | **Taglio-Estrusione4** | **Corpo solido** | ****Massa:0,0146462 kg****  ****Volume:1,12663e-05 m^3****  ****Densità:1.300 kg/m^3****  ****Spessore:0,143532 N**** | ****C:\Users\andrea.verli\Desktop\Meccanica-vs\VertiStock\Pallet\prova piattaforma.SLDPRT****  **Mar 24 14:22:35 2025** | |

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| Proprietà materiale  |  |  |  | | --- | --- | --- | | ****Riferimento modello**** | ****Proprietà**** | ****Componenti**** | |  | |  |  | | --- | --- | | ****Nome:**** | **PLA** | | ****Tipo di modello:**** | **Isotropico elastico lineare** | | ****Fallimento di default:**** | **Non conosciuto** | | ****Snervamento:**** | **4,95e+07 N/m^2** | | ****Resistenza alla trazione:**** | **3,7e+07 N/m^2** | | **CorpoSolido 1(Taglio-Estrusione4)(prova piattaforma)** | |

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| **Carichi e fissaggi**  | ****Nome fissaggio**** | ****Immagine fissaggio**** | ****Dettagli fissaggio**** | | --- | --- | --- | | **Fisso-1** |  | |  |  | | --- | --- | | Entità: | **2 facce** | | Tipo: | **Geometria fissa** | |  | ****Nome del carico**** | ****Immagine carico**** | ****Dettagli carico**** | | --- | --- | --- | | **Forza-1** |  | |  |  | | --- | --- | | Entità: | **1 facce** | | Tipo: | **Applica forza normale** | | Valore: | **4,9 N** | | |

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| Informazioni relative al mesh  |  |  | | --- | --- | | Tipo di mesh | Mesh di elementi solidi | | Mesher usato: | Mesh standard | | Transizione automatica: | Disattivo | | Includi loop automatico della mesh: | Disattivo | | Punti jacobiani per mesh di alta qualità | 16 Punti | | Dimensione elemento | 2,24263 mm | | Tolleranza | 0,112132 mm | | Qualità della mesh | Ottima |  Informazioni relative al mesh - Dettagli  |  |  | | --- | --- | | Nodi totali | 11789 | | Elementi totali | 6513 | | Rapporto d'aspetto max | 7,4178 | | % di elementi con rapporto d'aspetto < 3 | 99,4 | | Percentuale di elementi con rapporto d'aspetto > 10 | 0 | | Percentuale di elementi distorti | 0 | | Tempo per completare la mesh(hh;mm;ss): | 00:00:01 | | Nome del computer: | M006-22 | |  | | |

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| Risultati studio  | Nome | Tipo | Min | Max | | --- | --- | --- | --- | | Stress | VON: sollecitazione von Mises | 1,289e+03N/m^2  Nodo: 9659 | 1,404e+05N/m^2  Nodo: 9543 | | **prova piattaforma-SimulationXpress Study-Sollecitazione-Stress** | | | |  | Nome | Tipo | Min | Max | | --- | --- | --- | --- | | Displacement | URES: spostamento risultante | 0,000e+00mm  Nodo: 7 | 3,115e-03mm  Nodo: 9497 | | **prova piattaforma-SimulationXpress Study-Spostamento-Displacement** | | | |  | Nome | Tipo | | --- | --- | | Deformation | Sagoma deformata | | **prova piattaforma-SimulationXpress Study-Spostamento-Deformation** | |  | Nome | Tipo | Min | Max | | --- | --- | --- | --- | | Factor of Safety | Sollecitazione massima von Mises | 3,526e+02  Nodo: 9543 | 3,841e+04  Nodo: 9659 | | **prova piattaforma-SimulationXpress Study-Fattore di sicurezza-Factor of Safety** | | | | |

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| Conclusione |