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Rigid Polyurethane Panel PU board



Rigid polyurethane panel PU board is also called PU board, Yellow, with good flame retardancy, naturally extinguished after 3 seconds of ignition, resistant to high temperature, without deformation, with a temperature range of $-50 \sim +150^{\circ}\text{C}$. The normal density is $40\sim 60\text{kg/m}^3$, and with the addition of special materials, the density can reach 110kg/m^3 , and the temperature range can reach $-50 \sim +200^{\circ}\text{C}$. The product is non permeable and does not mold after soaking in water for 30 days. Its energy-saving and insulation effect is twice that of EPS board. The product's service life can reach over 30 years.

1, Description of Rigid polyurethane panel PU board

Hard polyurethane panel, also known as PU board, has a beautiful appearance and a yellow color. The product is resistant to high temperatures, with a normal operating temperature of $-50 \sim +150^{\circ}\text{C}$ and impact resistance. It is basically a closed cell structure, insulated and resistant to freezing and thawing, with good sound absorption performance, flame retardant, and self extinguishing in 3 seconds after leaving the fire, meeting the B2 level standard. The product belongs to a hydrophobic type material, which is impermeable and does not increase the thermal conductivity due to moisture absorption. The density is 40kg/m^3 , and the thermal conductivity is $0.018\sim 0.024\text{w/m.k}$, which is only half of that of EPS board. It is currently a very low material in insulation products. When the product is burning, it will form carbon deposits on its surface, which will help isolate the foam below and effectively prevent the spread of flame. During high-temperature use, the product does not produce any harmful gases and can have a lifespan of up to 30 years under normal use and maintenance conditions. Products are increasingly being widely used in cold storage, exhibition halls, gyms, ships, industrial factories, and more.

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2,Technical index of Rigid polyurethane panel PU board

Brand	TR-40	TR-110
Density Kg/m3	35-40	110-115
Thermal conductivity W/m.k	0.024	0.026
compressive strength Kpa	180-240	800-850
Water absorption %	1.9-3	1.9-3
Oxygen Index %	28-30	28-30
Flame retardancy	Self extinguishing after leaving the fire for 3 seconds	Self extinguishing after leaving the fire for 3 seconds
Cl ⁻	0.003	0.003
F ⁻	0.0006	0.0006
SIO ₃ ²⁻	0.0045	0.0045
Na ⁺	0.011	0.011

3. Main features of the product:

- 1) Good waterproof performance, no water seepage, and no mold after soaking in water for 30 days.
 - 2) Good flame retardancy, self extinguishing after 3 seconds of ignition, with a flame retardant standard of B2 level.
 - 3) Good insulation and sound absorption, low thermal conductivity, which is half of that of EPS board.
 - 4) Good impact resistance, resistant to hail, rain, and snow.
 - 5) Long service life, which can reach 30 years under normal use and maintenance conditions.
 - 6) Wide temperature range, ranging from -50 to +150 °C, After adding special materials, the temperature range can reach -50 ~ +200 °C.
 - 7) Appearance is beautiful, yellow, easy to process, and easy to install.
4. Application fields are increasingly used in industrial factories, warehouses, buildings, cold storage, ships, power plants, etc.
5. Users: Russia, Bangladesh, Ecuador, South Korea, etc. Among them, Bangladesh ships use 2000m²
6. Our company promises to customers: to provide free technical exchanges and services with customers, and to provide samples to customers free of charge without any sample fees.

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Do you want to find a professional supplier of Rigid polyurethane panel PU board?

Do you want to find a stable and credible supplier?

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