

产品参数表

CRIOTITAN® RPUF

RPUF 系列结构泡沫

产品特性/Product properties

- | | |
|----------------|--|
| • 良好的热传导率 | • Good thermal conductivity ratio |
| • 出色的火中反应(阻燃性) | • Excellent fire reaction(fire resistance) |
| • 极度兼容, 无孔表面 | • Extreme compatibility and no porosity surface |
| • 与树脂完美兼容和粘合 | • Perfect compatibility and adhesion with resins |
| • 高热变形温度 | • High heat distortion temperature |
| • 良好耐苯乙烯性能 | • Excellent resistance to styrene |
| • 低密度 | • Low density |



RPUF 为 CRIOTITAN® 泡沫系列产品之一, RPUF 是一种交联结构的硬质泡沫, 特殊的化学结构及发泡剂赋予泡沫优异的绝热性能, 较普通的硬质泡沫节省 20% 的能量, 与不饱和树脂、环氧树脂和乙烯基树脂相兼容, 具有良好的阻燃性, 达到 DIN B2 级别。主要用于冷藏、运输等领域。

RPUF is the CRIOTITAN® foam series products RPUF is a kind of rigid foam with cross-linked structure. The special chemical structure and foaming agent give the foam excellent adiabatic performance, saving 20% energy compared with ordinary rigid foam, and unsaturated resin and epoxy resin is compatible with vinyl resin and has good flame retardant performance, reaching the DIN B2 level. Mainly used for refrigeration, transportation and other fields.

应用领域/Applications

- | | |
|-----------------------------|--|
| • 公路和轨道交通:
冷藏、运输等 | • Road and Rail:
Thermal insulation, transportation, ... |
| • 船舶:
船体、舱壁等 | • Marine:
Hulls, bulkheads, ... |
| • 工业:
工装、罐、管道、盖板等 | • Industries:
Tooling, tanks, ductwork, covers, ... |

应用工艺/ Applicable Processes

- | | |
|----------------|--------------------------------|
| • 接触成型 (手糊/喷射) | • Contact Forming (Hand/Spray) |
| • RTM 及真空导流 | • RTM and Vacuum Infusion |
| • 粘结 | • Adhesive Bonding |
| • 热成型 | • Thermoforming |

典型性能/Typical Performance		单位/unit	N-J-70-06	N-K-90-07	N-L-110-08	N-D-130	N-E-150	N-F-170-13	N-H-210-11
密度 Density	ISO 845	Kg/m ³	70~80	90~95	110~115	120~140	140~160	160~180	200~220
压缩强度 Compressive Strength	ISO 844	MPa	0.5	0.8	1.1	1.3	1.7	2.2	2.9
压缩模量 Compressive Modulus	ISO 844	MPa	35	45	60	70	80	95	130
拉伸强度 Tensile Strength	ISO 1926	MPa	1.3	1.8	2.2	2.4	3.5	4.2	5.3
拉伸模量 Tensile Modulus	ISO 1926	MPa	70	90	110	150	190	230	300
闭孔率 Percentage of Open Cells	ASTM D2856-94	%	95	95	95	95	96	96	97
水汽透过性 Water Vapor Transmission	ISO 1633	μg/m ² .s	≤1100	≤1100	≤1100	≤1100	≤1100	≤1100	≤1100
发泡剂 Blowing Agent	-	-	HFO	HFO	HFO	HFO	HFO	HFO	HFO
使用温度 Service Temperature	/	°C	-180, 80	-180, 80	-180, 80	-180, 80	-180, 80	-180, 80	-180, 80
吸水率 Water absorption	ISO 2896	%	<2	<2	<2	<2	<2	<2	<2

*加工方式，其他尺寸基于客户要求

*Finishing Options, other dimensions and closer tolerances upon request

*以上数据为 23±1°C 和 50±5%湿度条件下测试平均值

*Above are the average values measured at 23+1°C and 50+5% as RH.

*使用温度指持续使用温度，峰值温度可以更高

*Service temperature means for continuous service, peak temperature can be higher.

备注/Notes:

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