

Application Number: E2.10_transportation applications

Fluororesin used: PTFE (CAS No. 9002-84-0)

Product Overview: Valve seats and the like

Fluororesin is used in the automotive industry as valve seats for solenoid valves in engine compartments in transportation applications.

Multiple specifications are required for this application, including creep resistance, sliding properties, and heat-resistant, and sealing properties, and fluororesin (with a filler) is used as a member that satisfies all of these requirements.

At this time, no alternative product that simultaneously meets all of the above required characteristics has been found.

Many types of products exist (e.g., metal sheets and soft sheets) and are selectively used depending on the use environment. After many studies in consideration of the use environment at each user company, fluororesin is determined to be appropriate and is used. The social impact on the industry due to the loss of sealing materials that can be used in these selected applications would be significant.

The following are the characteristic values of the fluororesin (with a filler) concerned.

[充填材入りバルフロン特性表]

Properties of Filled Valflon

特性 Properties		方向 direction	測定法 ASTM Test Method	単位 unit	6P0
比重 Specific gravity		—	D792	—	2.05
硬度 Hardness		—	D2240	デュロメータ D” Durometer “D”	68
引張強さ Tensile Strength		CD	D638	MPa	13.5
伸び Elongation		CD		%	15
圧縮クリープ Compressive creep	60min	MD	D621 25°C 13.7MPa	%	1.9
	24hr	MD			3.7
	永久変形 Permanent deformation	MD			1.7
色 Color	—	—	—	—	黒 Black

本データの値は、測定値の一例を示し、規格値ではありません。

The data contained within this catalogue can only be taken as a guide.

Thus, we request for regulatory exemption of it from proposed restriction for this application.