

FISA TEHNICA SPUMA POLIURETANICA
POLYURETHAN FOAM TECHNICAL DATA SHEET

Tip de spuma / Foam grade:	N2335K (N23140)				Clasa spuma : N; D; L; E
Culori / Colours:	Alb / White				N
Teste standard / Standard tests					
Densitate / Net density	Frecventa de testare / Testing frequency	Standard / Standard	Min	Max	
Duritate 40% / Hardness 40%	Fiecare sarja / Each batch	EN ISO 845:2008	21.8	25.3	[Kg/m³]
Duritate 40% / Hardness 40%	3 masuratori pe sarja / 3 measurements per batch		-	-	[KPa]
Suport factor / Support factor		SR EN ISO 3386-1:2002/A1:2010	115	165	[N]
Elasticitate / Elasticity	Fiecare sarja / Each batch	SR EN ISO 2439:2008	1.9	-	-
Rezistenta la tractiune / Tensile Strength	Fiecare sarja / Each batch	SR EN ISO 8307:2008	35	-	[%]
Alungire la rupere / Elongation at break	La 3 luni / Each 6 months	EN ISO 1798:2008	80	-	[KPa]
Rezistenta la compresiune 50% / Compression Set 50%	La 3 luni / Each 6 months	EN ISO 1798:2008	120	-	[%]
	Fiecare sarja / Each batch	SR EN ISO 1856:2003/A1:2008	-	6	[%]
Teste pentru rezistenta la foc / Fire Resistance tests					
		ISO 13501	-		
		FMVSS 302	-		
		D451333	-		
		BS 5852 (Crib5)	-		
		FAR 25853 (aeronautic)	-		
		TB 117-2013	-		
Alte tipuri de teste / Others tests					
CertiPUR		CertiPur Standard	OK		
OEKO-TEX		OEKO-TEX Standard 100	OK		
TDA-MDA(**)		IKEA IOS-MAT-0010	-	5	
Pierdere inaltimea la oboseala / Thickness loss by fatigue		IKEA IOS-MAT-0076	-	6	[%]
Pierdere durata la oboseala / Hardness loss by fatigue		IKEA IOS-MAT-0076	-	40	[%]
Continutul de cenusă / Ash content		IKEA IOS-MAT-0076	-	2.75	[%]
Antistatizare / ESD Antistatic		ANSI/ESD S20.20;	-		[Ω]
Miros / Odor		ANSI / ESD S541	-		
Fum / Fogging		NVX15012	-		
Imbatranire 2 / Aging 2		DIN 75201	-		
Dimethylfumarate (DMFu)		NVC00001	-		
		DIN CEN ISO TS16186	-		[mg/Kg]
Recomandari de utilizare pentru industria mobilei / Recommended application					
Spatare si cotiere pentru masini private / Private vehicle backs and armrests	Clasa A (Medie) / Class A (Average)	BS EN ISO 3385:2014			
Spatare si cotiere pentru uz casnic / Domestic furniture backs and armrests			Ok		
Straturi de componente pentru saltele de uz casnic (exclusiv mizezuri) / Component layers for domestic mattresses(excluding cores)					
Captuseala / Padding Perne pentru sezuturi / Scatter cushions Perne de dormit / Pillows	Clasa L (Usoara) / Class L (Light)	BS EN ISO 3385:2014		OK	
Recomandari pentru roluire - deroluire (*)/ Recommendations for rolling - unrolling(*)					
Sezon Cald / Warm Season					
Sezon Rece / Cold Season					
Recomandare dimensiuni pentru placi roluite: + 2.5% fata de dimensiunile necesare *Nota: Deroluarea trebuie sa se realizeze in maxim 3 zile de la roluire tinand cont de urmatoarele aspecte: -folia sa fie desfacuta total; -placile sa fie lasate liber cu distanta intre ele, nesuprapuse, pana la revenirea totala (~48 ore); Recommended dimensions for rolled plates: + 2.5% above requested dimensions. *Note: Unrolling must be done within 3 days after rolling process taking into account the following aspects: -the foil has to be completely removed; -plates must be laid individually with distance between them, not stacked, up to full recovery (~ 48 hours);					
Tolerante standard / Standard tolerances					
Tolerante standard ale dimensiunilor: +/- 1.5% (L x l x h)					
Standard size tolerances: +/- 1.5% (L x w x h)					

Nota:

Acest tip de spuma nu este tratat cu ignifugant.
 Caracteristicile fizico-mecanice mentionate in prezenta specificatie tehnica constituie datele de calitate contractuala ale produsului la momentul transferului riscului si anume la predarea acestuia catre cumparator. Aceste caracteristici sunt controlate pentru fiecare sarja de produs si/sau la intervale regulate, ca parte a programului Fleximob de asigurare a calitatii. Nicina dintre aceste date si/sau proprietati nu reprezinta o garantie din punct de vedere juridic ca produsul este adevarat pentru un anumit scop sau utilizare si, in consecinta, Fleximob isi declina orice responsabilitate rezultata din aceasta.

**Conform standardului ISO-MAT 0010, versiunea 15, testul TDA-MDA se va realiza pe familii :3 teste pentru spumele standard (N), o spuma cu densitate mica, una medie si una mare.

Note:

This type of foam is not treated with flame retardant.

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing the risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of our can be derived therefrom.

**According to the ISO-MAT 0010 standard, version 15, the TDA-MDA test will be performed for families:3 tests for Standard foams (N):a foam with low density, a medium and a high.



Informatii Suplimentare:

Recomandari pentru pastrarea spumei flexibile din poliuretan

In conditii neutre de stocare, spuma flexibila din poliuretan poate fi pastrata pentru o perioada lunga de timp.

In general, nu este posibila o declaratie privind termenul minim de valabilitate, deoarece aceasta depinde de conditiile de depozitare.

Caracteristicile garantate ale spumei poliuretanice flexibile in conditiile de livrare vor fi neschimbate pe cat posibil, daca se vor respecta conditiile de depozitare prin utilizarea principiului FIFO:

- depozitarea in spatii bine ventilate

- protectia impotriva radiatiilor UV

- protectia impotriva umezelii si umiditatii aerului

- protectia impotriva solventilor si a substantelor volatile, deoarece acestea sunt absorbite de spumele poliuretanice flexibile.

- * expunerile directe la lumina, praf si/sau umiditate, pot modifica culorile spumelor poliuretanice, nefiind afectate proprietatile acestora

Informatii suplimentare pentru spumele adezivate

Spumele cu banda adeziva trebuie depozitate la temperatura camerei (20°C), umiditate normala (50-70%) si in absenta radiatiilor UV.

Spumele adezivate pot fi utilizate in conditii normale pe o perioada maxima de 1 an, in functie de tipul de adeziv aplicat. Mai jos sunt informatii in acest sens. Adeziv din acrilic pur: 1 an

Adeziv din acrilic modificat: 1/2 an

Informatii suplimentare pot fi regasite in Fisele Tehnice aferente adezivului utilizat.

Temperatura de aplicare

Temperatura cea mai favorabila pentru utilizarea spumelor adezivate este in intervalul $+18^{\circ}\text{C}$ pana la $+35^{\circ}\text{C}$.

Daca lipirea se face la temperaturi scazute, rezistenta initiala a lipirii va fi redusa.

Suprafetele materialelor pe care sunt lipite, trebuie sa fie uscate si curate. Condensarea umiditatii pe suprafetele pe care vor fi lipite (de exemplu, atunci cand sunt transportate obiecte reci intr-o incarcere mai calda) trebuie evitata.

Materialele pe care vor fi lipite, trebuie sa fie fara urme de praf, grasimi, ulei si agenti de separare. Vopsele sau acoperirile de protectie trebuie indepartate sau stabilizate.

Intretinerea

Pentru curatarea spumei, se aplica un detergent pentru curatarea uscata si se curata zona cu o laveta umeda pentru inlaturarea petelor.

Nu se utilizeaza produse de curatare lichide pentru ca pot deteriora spuma irreversibil.

Pentru curatarea suprafetelor pe care vor fi lipite, utilizati numai o caramida curata si un solvent compatibil cu materialele folosite.

Presiunea de contact ridicat promoveaza contactul total. Presiunea de contact (aproximativ $10-15\text{ N/cm}^2$) se aplica manual cu o rola sau o presa de suprafata.

Rezistenta completa a adezivului este atinsa numai dupa cel putin 24 de ore.

Lipirile trebuie realizate astfel incat sa nu apara nici o actiune de paraghe. Orice stres de forfecare sau de intindere trebuie sa se poata raspandi pe intreaga suprafata adeziva.

Tendintele continue de "peeling" afecteaza elasticitatea permanenta. Evitati stresul la marginile lui.

Suprafata finala

Lipirea produselor se realizeaza pe suprafete netede. Suprafetele aspre necesita o banda adeziva mai groasa.

Urmatoarele sunt exemple de materiale lipite fara probleme: metale, plastice de inalta energie (de exemplu ABS, polycarbonat, PVC rigid), lemn neted, piatra si sticla.

Materialele plastice care contin plasticanti necesita o atentie deosebita. Plasticantul poate provoca schimbari in structura adezivului cu impact pe rezistenta lipiturii care este afectata.

Sunt disponibile spume adezivate pentru majoritatea aplicatiilor, dar in cazul suprafetelor problematice (cum ar fi polietilena, polipropilena, plastice care contin lubrifianti, acoperiri cu pulbere si cauciuc), trebuie sa se efectueze teste de corespundinta in prealabil.

Denegare de responsabilitate

Toate informatiile si recomandarile legate de utilizarea si aplicatiile practice sunt obtinute in urma experientelor practice.

Cumparatorul este responsabil pentru determinarea, utilizarea in mod adevarat si specific a produsului achizitionat.

Pentru informatii si recomandari suplimentare va rugam sa consultati reprezentantii Fleximob pentru vanzari.

More information

Recommendations for storage of polyurethane flexible foam.

Under neutral conditions of storage polyurethane flexible foam can be stored for a long-term period.

In general a statement of the minimum shelf life is not possible, as this is dependent on the storage conditions.

Warranted characteristics of flexible polyurethane foam in delivered conditions will be unchanged as far as possible, if following storage conditions will be observed by using the FIFO-principle:

- storage in well-ventilated indoor areas.

- protection against UV radiation

- protection against water, humidity and air moisture

- protection against solvents and volatile substances, because these are absorbed by flexible polyurethane foams.

- * direct exposures to light, dust and / or moisture, can change the colors of polyurethane foams, not affecting their properties

Additional information for self-adhesive foams

Foams with adhesive tape should be stored at room temperature (20°C), normal humidity (50-70%) and in absence of UV-radiation.

Adhesive foams can be used under normal conditions for a maximum of 1 year, depending on the type of adhesive applied. Below are information in this regard.

Pure acrylics - 1 year

Modified acrylics - 1/2 year

Additional information can be found in the Technical Data Sheets for the adhesive used.

Application temperature

The most favorable temperature for using adhesive foams is in the range of $+18^{\circ}\text{C}$ to $+35^{\circ}\text{C}$.

If bonding is done at low temperatures, the initial bond strength will be reduced.

The surfaces of the materials to which they are bonded, must be dry and clean. Condensation of moisture on the surfaces to be glued (e.g., when cold objects are transported into a warmer room) should be avoided.

The materials to be glued must be free of dust, grease, oil, and separation agents. Paints or protective coatings should be removed or stabilized.

Cleaning

To clean the foam, apply a dry cleaner and clean the area with a damp cloth to remove stains.

Do not use liquid cleaners as they can damage the foam irreversibly.

To clean the surfaces to be glued, use only a clean cloth and a solvent compatible with the materials used.

The high contact pressure promotes total contact. The contact pressure (approximately $10-15\text{ N/cm}^2$) is applied manually with a roller or surface press. Full

adhesive strength is only achieved after at least 24 hours.

Sticks must be made in such a way that no lever action occurs. Any stress of shearing or stretching must be able to spread across the entire surface. Continuous tendencies of "peeling" affect permanent elasticity. Avoid stress at his edges.

Surface finish

Product bonding is done on smooth surfaces. Rough surfaces require a thicker adhesive tape.

The following are examples of smooth glued materials: metals, high-energy plastics (eg ABS, polycarbonate, rigid PVC), smooth wood, stone and glass.

Plastics containing plasticizers require special attention. The plasticizer may cause changes in the adhesive structure impacting on the solder resistance that is affected.

Adhesive foams are available for most applications, but for problematic surfaces (such as polyethylene, polypropylene, plastics containing lubricants,

powder and rubber coatings), the appropriate tests must be carried out in advance.

Denial of responsibility

All the information and recommendations related to the use and practical applications are obtained from practical experiences. The

buyer is responsible for determining, using appropriately and specifically the purchased product.

For additional information and recommendations, please contact Fleximob Sales Representatives.