Brugervejledning og data på rørbærersystem fra DBK

Belastning: Rørbærersystemet er dimensioneret til at bære max. 25 kg. pr. strop, f.eks. med max. 25-30 cm grusdækning over rør (grus 11 kN/m3). Ved større indbygningsdybder anbefales overdækning udført i lettere materiale som Sundolitt el.lign.
Rørbærersystemet kan benyttes til rørhældninger på op til 60 promille. For større styrke sideværks i montagesituationen, afskæres indvendigt hult gevind på tryktrækstang inden montage i basen/stropholder.

Miljøtemperatur: Rørbærersystemet er dimensioneret til miljøtemperaturer fra -10 grader til +80 graders celcius.

Montage i terrændæk: Rørbærersystemets tryk/trækstang kan indstøbes direkte i insitu-beton, uden øvrige flanger, (terrændæk etc.) Bør indstøbes med min. 40 mm i beton, for at opnå tilstrækkelig udtræksstyrke. Tryk/trækstænger afskæres i korrekt højde over isolering inden udlægning af armeringsnet, da rørbærersystemet ikke må belastes sideværks.

Løse og faste stropper: Systemet kan fungere både som fast strop og som løs strop. Ved faste stropper (typisk ved muffer), topforsegles i „trekant“ imellem strop, stropholder og rør, med f.eks. Tec7 på patron, så stroppen ikke „glider på røret“. De løse stropper monteres imellem de faste stropper, således at rør kan bevæge sig for elasticitet i røret.
(Typisk faste stropper pr. max. 3 m, med løse stropper imellem pr. 0,5 m.)

Forbindelse til fæstning: Tryk/trækstang skrues i bund på stropholder, og tryk/trækstang kan forlænges med det lille indvendige gevind på stængerne. Dette indvendige gevind skrues helt i til det klikker på de små låsetappe - der må ikke skrues hårdt baglæns på disse, da de kun er beregnet til at holde stænger på plads under montage.

Samling mod rør: Stroppen trækkes på rør, og stropholder klikkes på strop. Det er vigtigt at strop trykkes nedefter i stropholder, således at låsetappe klikker og er låst.

Genanvendelse: Ødelægges nogle af de ovenstående tappe på hhv. stropper og indvendigt gevind på stænger, må delen udskiftes med nyt komponent. Komponenter må ikke genanvendes hvis de har været samlet.

Montage på loft og væg: (VVS) Stropholder kan også fæstnes til loft og væg, med f.eks. en 6,3 mm betonskrue hvor der forbores med 5 mm bor. (Se datablad på skruer).

Tilpasning af længde på opstropning: Tryk/trækstang skrues herefter på stropholder i loft, og anden stropholder kan fæstnes til enden af tryk/trækstang og skrues helt i bund. (Herefter kan man i gevindet dreje stropholder op til 1 hel omgang retur for at fintilpasse højde). (Max. 5 mm).

Montage af rør i stropholder under loft: Rør monteres herefter op i nedhængt stropholder, der har naturlig anlægsflade til Ø110/Ø160 rør, og strop trækkes ud over rør, og klikkes på stropholder med et nedadgående tryk. Så er montering under loft færdig.

Montage på væg: (faldstammer) Ved montage på væg vendes stropholder, således at anlægsflade til rør (buet del), vender ud/væk fra væg. Herefter skrues stropholder fast direkte i væg, og røret kan herefter monteres på stropholder, med en strop der klemmes udover røret, og klikkes fast på stropholder. Herefter topforsegles som fast strop. Systemet må ikke bruges til horisontale ledninger på væg.

Levetiden for opstropningerne er 100+ år, og derved plastrørenes levetid ud. Opstropningerne er korrosionsbestandige og syrefaste. Tryktrækstænger og stropholdere er ikke elastiske.

Præsentationsfilm

DANSK BYGGEKOMPONENT APS

FARUM GYDEVEJ 67-69 · DK-3520 FARUM · +45 22 72 22 00 · INFO@DBK-APS.DK · WWW.DBK-APS.DK

Dansk Byggekomponent ApS udvikler og producerer prisbillige og serieproducerede produkter til indbygning i bygningskonstruktioner inden for jord, beton og kloak.

Akulon®

Akulon® F223-D

PA6

Low/Medium Viscosity, General purpose, Injection Molding, Food Contact Quality

Print Date: 2020-08-17

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	3200 / 1000	MPa	ISO 527-1/-2
Nominal strain at break	20 / >50	%	ISO 527-1/-2
Yield stress	85 / 45	MPa	ISO 527-1/-2
Yield strain	4 / 25	%	ISO 527-1/-2
Flexural modulus	2600 / -	MPa	ISO 178
Flexural strength	100 / -	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.5 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	2.5 / 5	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	160 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10

Property Data

Akulon® F223-D

Print Date: 2020-08-17

Properties	Typical Data	Unit	Test Method
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Oxygen index	26 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	900 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	875 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	825 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5 / -	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	875 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1 / -	mm	IEC 60695-2-13
Electrical properties	**dry / cond**		
Relative permittivity (100Hz)	3.4 / 15	-	IEC 60250
Relative permittivity (1 MHz)	3.1 / 4.7	-	IEC 60250
Dissipation factor (100 Hz)	65 / 3900	E-4	IEC 60250
Dissipation factor (1 MHz)	165 / 1300	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E14	Ohm	IEC 60093
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
Other properties	**dry / cond**		
Water absorption	10 / *	%	Sim. to ISO 62
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m³	ISO 1183
Material specific properties	**dry / cond**		
Viscosity number	132 / *	cm³/g	ISO 307, 1157, 1628

Akulon®

Akulon® K224-G6

PA6-GF30

30% Glass Reinforced

Print Date: 2019-04-11

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	9500 / 6000	MPa	ISO 527-1/-2
Stress at break	180 / 110	MPa	ISO 527-1/-2
Strain at break	3.5 / 7	%	ISO 527-1/-2
Flexural modulus	8600 / -	MPa	ISO 178
Flexural strength	235 / -	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11 / 11	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	207 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10

Property Data

Akulon® K224-G6

Print Date: 2019-04-11

Properties	Typical Data	Unit	Test Method
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	700 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	700 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	2 / -	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-13
Electrical properties	dry / cond		
Relative permittivity (100Hz)	3.5 / 20	-	IEC 60250
Relative permittivity (1 MHz)	3.3 / 5	-	IEC 60250
Dissipation factor (100 Hz)	50 / 3000	E-4	IEC 60250
Dissipation factor (1 MHz)	150 / 1200	E-4	IEC 60250
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
Other properties	dry / cond		
Water absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m³	ISO 1183

DSM Engineering Materials

Urmonderbaan 22, 6167 RD Geleen, The Netherlands

PDM.dem@dsm.com

Reference: R000011181
To: Complianceletter [complianceletter@resinex.com] - Resinex

Revision date: 2021-12-01
Print date: 2022-01-21

ABSENCE DECLARATION

According to the recipe for the production of **Akulon®, Arnite®, Arnitel®, EcoPaXX®, ForTii®, Novamid®, Stanyl®** and **Xytron™** grades **(all colors)** the following substances are not intentionally used or added:

- bis (2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di-"isononyl" phthalate (DINP), di-"isodecyl" phthalate (DIDP), di-n-octyl phthalate (DNOP) and Diisobutyl phthalate (DIBP).

Since the presence of the above-mentioned substances couldn't be expected under normal conditions, the absence has not been checked by tests.

Although the above-mentioned substances are not intentionally added, this does not exclude the presence of traces due to (among others) impurities in the components supplied by third parties and used in our production facilities.

However, it is our opinion that the chemical composition of the above mentioned products fully complies with the requirements for Phthalates laid down in Annex XIV and Annex XVII of Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amanded up to COMMISSION REGULATION (EU) 2021/2045 of 23 November 2021).

This declaration has been prepared and issued on the basis of currently applicable laws and regulations and our best knowledge and expertise currently available; the addressee or recipient is advised to regularly request updates hereof. This declaration replaces all previous ones relating to this subject.

The General Conditions of Sale of the entity selling this product apply to and are part of all our quotations, offers, agreements, sales, deliveries and all other similar dealings, unless explicitly agreed otherwise by means of a duly and mutually executed document.

This information holds for the material as it leaves its production facilities and does not include any additive, pigment, etc. subsequently added by the converter or processing steps undertaken by any other third party.

On behalf of DSM Engineering Materials,

W. Saelmans
Senior Expert
Regulatory Affairs & Product Safety

R. Offermanns
Senior Expert
Regulatory Affairs & Product Safety

DSM Engineering Materials

Urmonderbaan 22, 6167 RD Geleen, The Netherlands

PDM.dem@dsm.com

Reference: R000016201

To: Complianceletter [complianceletter@resinex.com] - Resinex

Revision date: 2022-06-13
Print date: 2022-06-15

REACH and SVHC statement

DSM Engineering Materials (DEM), established at Urmonderbaan 22, 6167 RD Geleen, the Netherlands, is committed to comply with the requirements of Regulation (EC) No 1907/2006 (REACH).

The "Products" (**Akulon®, Arnite®, Arnitel®, EcoPaXX®, ForTii®, Novamid®, Nylatron™, Stanyl®** and **Xytron™** (all colors), with the exception of **Akulon® RePurposed**), comply with the REACH legislation, if ordered from DEM.

Should you consider importing Products as such or as part of your own products into the European Union (EU) directly, please contact your account responsible person of DSM Engineering Materials to check REACH compliance. This declaration does not cover such imports.

According to their respective formulations the Products do not contain:

- substances listed in Annex XIV of REACH (List of Substances Subject to Authorisation (referred to in Annex 1)) that are intentionally used or added;
- substances included in the Candidate List of Substances of Very High Concern for Authorisation (referred to in Annex 1), in concentrations exceeding 0.1% (w/w).

This declaration has been prepared and issued based on currently applicable laws and regulations and our best knowledge and expertise currently available; the addressee or recipient is advised to regularly request updates hereof. This declaration replaces all previous ones relating to this subject.

The General Conditions of Sale of DEM or any of its affiliate(s) selling Products apply to and are part of all our quotations, offers, agreements, sales, deliveries, and all other similar dealings, unless explicitly agreed otherwise by means of duly and mutually executed document.

This information is valid for the Products as these leave its production facilities and does not include any other additive, pigment, etc. subsequently added by the converter or processing steps undertaken by any other third party.

On behalf of DSM Engineering Materials,

W. Saelmans
Senior Expert
Regulatory Affairs & Product Safety

R. Offermanns
Senior Expert
Regulatory Affairs & Product Safety

Annex 1: Links to Candidate and Authorisation lists

DSM Engineering Materials

Urmonderbaan 22, 6167 RD Geleen, The Netherlands

PDM.dem@dsm.com

Annex 1:
Links to Candidate and Authorisation lists

Candidate list, updated on 10 June 2022
http://echa.europa.eu/web/guest/candidate-list-table

Authorisation list
https://echa.europa.eu/authorisation-list