

Accreditation scope

Name of the accredited subject: VÚSAPL, a.s.

Department of testing laboratories

Novozámocká 179, 949 05 Nitra 05

Laboratory with a fixed accreditation scope.

Položka	Objekt skúšky		Zavedená metóda		Ostatné špecifikácie (rozsah, neistota, účel, modifikácia/validácia, názory/interpretácie, atď.)
	Predmet / Matrica / Prostredie	Vlastnosť / Parameter / Ukazovateľ / Analyt	Princíp / Druh / Typ	Označenie	
1	Plastics, rubber	Density	Hydrostatic method	STN EN ISO 1183-1	
2		Volatile substances	Gravimetry	STN 64 0311 STN 64 0316 STN 62 1111 DIN 75201 STN EN ISO 3344 GME 60326 PV 3015 SAE J1756 ISO 6452 VCS 1027, 2719 D45 1727	polyethylene rubber automotive products reinforcement products plastics automotive products automotive products automotive products automotive products automotive products
3		Extractables matter	Gravimetry	STN EN ISO 6427 STN 64 0324 STN 64 0364 STN 62 1112 STN EN ISO 10147	polyvinylchloride polyamides rubber polyethylene pipes and fittings
4		Ash content	Gravimetry Rheology	STN EN ISO 3451-1 (ŠPP A 03/1991) STN EN ISO 3451-4,5 STN EN ISO 1172 STN 62 1116 ŠPP A 02/1991 (STN 64 0313)	polyamide, polyvinylchloride reinforced plastics rubber polyolefíns
5		Melt flow index		STN EN ISO 1133 ASTMD 1238	
6		Water absorption	Gravimetry	STN EN ISO 62 STN EN 12087 STN EN 1609	thermal insulating products thermal insulating products
7		Viscosity number	Viscosimetry	STN EN ISO 307 STN EN ISO 1628-1 ISO 1628-5 DIN 53 728-3	polyamide polyethylentereftalate
8		Identification of polymers and additives	Infraredspectro- photometry (qualitative test)	ŠPP A 06/1991 (Hummel, D., Schol, F: Atlas der Polymer- und Kunststoffanalyse; Carl Hanser Verlag, München, 1978)	
	Thermal analysis		STN EN ISO 11357-1 ISO 11357-2,3		

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9	Plastics, rubber	Water vapor permeability	Gravimetry	STN 77 0332 STN EN 12086 STN EN 1931 STN EN ISO 12572	thin sheet materials thermal insulating products flexible sheets for waterproofing building materials
10		Glasstemperatur eMelting point, Crystallization temperature, Group heat of fusion Onset melting temperature (Onset) Thermooxidation temperature Oxidation- induction time	Thermal analysis	STN EN ISO 11357-1 ISO 11357-2,3 STN EN 728	
11		Flammability	Measurement of the burning time and burning rate *	STN EN 60695-11-10 TL 1010 STN ISO 3795 STN EN 50086-1 FMVSS 302 MS 300-08 GS 97038 DIN 75 200 TSM0500G D45 1333 VCS 5031,19 GMW 3232 FIAT 7 – G 2000 DBL 5307 SAE J369 ASTM D5132 Toyota TSM 0500G PV 3904 SWF 47.000 PTL 8501	automotive products wiring pipes. automotive products
			Glow wire flammability test (qualitative test)	STN EN 60695-2-11,12,13 STN EN 50086-1 UL 94	wiring pipes
12		Transmittance, Light reflection, Color Gloss	UV-VIS Spectral methods *	ŠPP A 05/2007 (STN EN ISO 13468-1) ŠPP A 04/2019 (Güntel Kämpf: Charakterization of plastics by physical methods, Hanser Publihers, München, 1986)	films plastics
13	Plastics, rubber, textilies	Tensile propeties	Force measurement	STN EN ISO 527-1,2 STN EN ISO 527-3 STN EN ISO 527-4,5 STN 64 6010, čl. 32 STN 77 0140 STN EN ISO 6259-1 ISO 6259-3	polyethylene film packaging materials pipes pipes

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13	Plastics, rubber, textiles	Tensile properties	Force measurement	ASTM D638 STN EN 1607 STN EN ISO 293 STN EN ISO 294-1,2,3,4 STN EN ISO 2818 STN ISO 37 STN EN ISO 6383-1 ČSN ISO 34-1	polystyrene preparation of the test specimens preparation of the test specimens preparation of the test specimens rubber films
14	Plastics, rubber	Cohesion between layers	Force measurement	STN 64 7030 D 511 485 D 411 015	plastics automotive products automotive products
15		Flexural properties	Flexural measurement	STN EN ISO 178 STN EN 12089 STN EN ISO 14125 ASTM D790	polystyrene fibre-reinforced plastic composites
16		Impact resistance	Impact resistance	STN EN ISO 179-1 STN EN ISO 8256 ISO 9854	plastics pipes for the transport of liquids
17		Hardness	Indentation hardness	STN EN ISO 2039-1 STN EN ISO 868	
18		Heat resistance	Measurement of temperature	STN EN ISO 306 STN EN ISO 75-1,2,3 STN EN ISO 2507-1,2	
19		Odor	Sensory test (qualitative test)	STN 77 0226 PV 3900 GME 60276 VDA 270 MS 300-34 GMW 3205 FLTM BO 131-01, 03 D10 557 VCS 1027, 2729 TPJLR 52.458	packaging materilas automotive products automotive products automotive products automotive products automotive products automotive products automotive products automotive products automotive products
20	Compressive strength	Force measurement, deformation measurement	STN EN ISO 604 STN EN 826 STN 64 5443 STN EN ISO 3386-1,2 STN EN 12608 STN EN 514 STN EN ISO 9969 STN ISO 13967 STN EN 13968	thermal insulating products cellulars materials cellulars pol. materials windows profiles windows profiles, corners piping systems piping systems piping systems	
21	Weight	Weighing a known volume (bulk density)	STN EN ISO 60		
		Dimension measurement and weighing (Mass per unit area)	STN 64 7011		films
		Measurement of dimensions and weighing (volume weight)	STN EN ISO 845 STN EN 1602		cellular plastics and rubber thermal insulating products

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21	Plastics, rubber		Length measurement and weighing (length weight)	STN EN 12608	windows profiles
22		Dimensions Dimensional stability	Dimensions measurement	STN 64 0181 STN 64 7010 STN EN 1013 STN EN ISO 1923 STN EN 822 STN EN 823 STN EN 824 STN EN 825 STN EN ISO 3126 STN EN ISO 11501 STN 64 0609 DIN 53497 STN 64 5405 STN EN 13163 STN EN 1603 STN EN 479 STN EN ISO 2505 STN EN 12608	Films and sheets porometers, plastic profiled plastic, sheets cellulars plastics and rubber thermal insulating products thermal insulating products thermal insulating products thermal insulating products piping systems films and sheets shrinkage films injection moulding products cellular materials thermal insulat.products (EPS) thermal insulating products windows profiles piping systems
23		Coefficient of friction	Force measurement	STN EN ISO 8295	Films and sheets
24		Impact resistance	Determination of the dart weight	STN EN ISO 7765-1 STN EN 12608 STN EN 477	films windows profiles windows profiles
	Ball drop test (qualitative test)		PV 3905 MS 210-05 STN EN ISO 3127 STN ISO 13 263		
25	Plastics, rubber, petroleum products	Appearance (color, colorfastness, marking)	Visual assessment (qualitative test)	STN 77 0501 STN 64 0011 STN EN 20105-A02 ISO 105-A02 STN EN 20105-A03 ISO 105-A03 STN EN ISO 105-B01 STD 1026.8201 STN EN ISO 4628-1,2 STN 65 6540	films plastics automotive products automotive products automotive products automotive products automotive products. paints and varnishes technical gasolines
26	Plastics, rubber	Durability of operational reliability	Thermal ageing, appearance after exposition (qualitative test)	STN EN 12608 STN EN 478 STN EN ISO 580 DIN 53 497 ŠPP FM 53/2011 (PV 1200, PV 2005, met. A)	windows profiles windows profiles pipings systems pipings systems automotive products
			Environmental cyclic changes (qualitative test)	ŠPP FM 53/2011 (PV 1200, PV 2005, met. A) STN EN ISO 4628-1,2, 5 STN EN 60068-2-14	automotive products automotive products

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26	Plastics, rubber	Durability of operational reliability	Chemicals resistance (qualitative test)	MS 210-05 STN EN ISO 175 ŠPP A 41/19 (TP JLR 52.155, TP JLR 52.156, MS 210-05) STN ISO 1817 STN 62 1156 STN EN 580 TL 52631 FLTM BN 112-08 VOLVO 85042802 VOLVO 85000150	automotive products plastics rubber rubber unplasticized polyvinylchlor.pipes
			Chemicals resistance (qualitative test)	TL 226 TL 211	automotive products automotive products automotive products automotive products automotive products automotive products
			Scratch resistance (qualitative test)	STN EN ISO 2409 PV3952 PV 3966 TL 226 TPJLR 52.004	automotive products automotive products automotive products automotive products
			Abrasion resistance (qualitative test)	STN EN ISO 105- X12 PV 3906	automotive products
27		Resistance to internal pressure Tightness	Compressive strength (qualitative test)	STN EN ISO 1167-1,2 STN EN 1555-1,2,3,4 STN EN 1401-1 STN EN 1329-1 STN EN 13476-1,2,3 STN EN 12201-1,2,3 STN EN ISO 15875-1,2,3 STN EN ISO 15874-1,2,3 STN EN 1451-1 STN EN 1452-1,2,3 STN EN ISO 21003-2	Pipes and fittings polyethylene pipes for gas polyvinylchl non pressure sewer.p polyvinylchl non pressure sewer.p polyvinylchlorides pipes, polyolefin pipes polyethylene pipes for watter crosslinked polyethylene pipes polyethylene pipes polypropylene p.for soil and waste polyvinylchl. p. – pressure sewer. multilayer pip. for hot and cold w.
			Visual evaluation of tightness (qualitative test)	STN EN 1053 STN EN 1054 STN EN 714 STN EN ISO 13056	pipings systems pipings systems pipings systems pipings systems
28	Chemical products, petroleum products	Impurity content	Gravimetry	STN 65 6080 STN EN 12662 STN 66 8910	cooling liquid
29		Ash content	Gravimetry	STN EN ISO 6245	
30		Density	Hydrometer method	STN EN ISO 3675 STN 65 0342 STN 66 8910	cooling liquid
	Pycnometric method		STN EN ISO 3838 STN EN ISO 2811-1	coatings	

Annex to the Decision No. 005/8706/2020/1 and to the Certificate of Accreditation No. S-043 dated 02.12.2020.

The Annex is an integral part of the
Certificate of Accreditation

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31	Chemical products, petroleum products	Viscosity	Viscosimetry	STN EN ISO 3104 (ŠPP A 24/2000) (Merací postup č. 13/1 pre meranie kinematickej viskozity, Kalibračné združenie SR, SMÚ, Bratislava, 1997) STN 65 6218	
32		Corrosiveness to metals	Visual assesment (qualitative test)	STN EN ISO 2160 STN 65 6075 STN 66 8910	cooling liquid
33		Water content	Coulometry	STN ISO 760 STN EN ISO 12937	
34		Distillation characteristic	Distillation	STN EN ISO 3405 ŠPP A 25/2000 (OECD Test Guideline 103, Paris, 1981) STN 65 6062 STN 66 8910 STN ISO 4318	cooling liquids surface active agents and soaps
		Cetane index	Calculation	STN EN ISO 4264	
35		Flash point	Temperature measuring	STN EN ISO 2719 STN EN ISO 2592	
36		Stability of the chemical composition	Infrared spectrophotometry (qualitative test)	STN 65 6507	additives for fuels
37	Plastics, rubber	Emissions of organic compounds	GC - FID	PV 3341 VDA 277	automotive products automotive products

NOTE:

* - The basis for the national vehicle type approval according to Act No. 106/2018.
