



Laboratory research services



Test subject	Test parameter	Test standard
Rubber compounds	Evaluation of homogenization and purity of the rubber compound	Own methodology
Rubber compounds	Measurement of vulcanization characteristics	PN-ISO 6502
Rubber compounds	Determination of Mooney viscosity	PN-ISO 289-1
Rubber compounds	Extrudability of Unvulcanized Compounds	ASTM D-2230
Vulcanized rubber compounds, rubber products, plastic products	Density	ASTM D-2230
Vulcanized rubber compounds, rubber products (except sponge rubber), and plastic products	Hardness Range: [35-100] ShA	ISO 48-4 PN-EN ISO 868
Vulcanized rubber compounds,rubber products (except sponge rubber), and plastic products	Hardness Range: [30-100] IRHD	ISO 48-2 met. M [mikro]
Vulcanized rubber compounds	Rebound resilience method Schoba	ISO 4662
Vulcanized rubber compounds, rubber products	Tensile strength properties	PN-ISO 37
Vulcanized rubber compounds, rubber products	Tear strength properties	PN-ISO 34-1, PN-ISO 34-2
Vulcanized rubber compounds, rubber products	Accelerated ageing and heat resistance	PN-ISO 188
Vulcanized rubber compounds, rubber products	Liquid resitance, including oil resitance	PN-ISO 1817
Vulcanized rubber compounds, rubber products	Compression set	PN-ISO 815
Vulcanized rubber compounds, rubber products (except sponge rubber),	Abrasion resistance using the Schoppera-Schlobacha apparatus	PN-ISO 4649
Vulcanized rubber compounds, rubber products	Brittleness temperature	PN-ISO 812
Vulcanized rubber compounds, rubber products	Resistance to low-temperature-temperature reaction procedure-TR test	ISO 2912
Rubber products, plastic products	Burning	ISO 3795
Rubber products, plastic products	Fogging-gravimetric method	ISO 6452 / DIN 75201-B



Test subject	Test parameter	Test standard
Vulcanized rubber compounds, rubber products	Resistance to ozone	ISO 1431-1
Rubber products, plastic products	Gloss - angle 60°	PN-EN ISO 2813
Vulcanized rubber compounds, rubber products, plastic products	Color measurement	PN-EN ISO 11664-4
Rubber products, plastic products with a coating	Resistance of coatings to detachment from the substrate [Cross-cut test]	PN-EN ISO 2409
Rubber products, plastic products	Resistance to weather conditions	PN-EN ISO 4892-2 met. A
Rubber products, rubber-metal products, rubber-plastic products	Measurements of static characteristics up to 100kN or 500Nm / 50°	Acc. to delivered documentation
Rubber products, rubber-metal products, rubber-plastic products	Creep test up to 50kN	
Rubber products, rubber-metal products, rubber-plastic products	Axial push in and push out force measurements	
Rubber products, rubber-metal products, rubber-plastic products	Dynamic stiffness and Loss angle measurements up to 400Hz	
Rubber products, rubber-metal products, rubber-plastic products	Amplitude and frequency characteristics measurements up to 400Hz	
Rubber products, rubber-metal products, rubber-plastic products	Determination of the tensile strength and elongation to failure up to 100kN	
Rubber products, rubber-metal products, rubber-plastic products	Bonding strength up to 100kN	
Rubber products, rubber-metal products, rubber-plastic products	Determination of the permanent set characteristics up to 50kN	
Metal sleeves	Axial compression resistance up to 100kN	



Checking of measuring instruments		
Test subject	Test parameter	Test standard
PRESSURE GAUGE	Pressure	Own methodology LP 03/02
TEMPERATURE SENSOR	Temperature	Own methodology LP 03/04
TRANSDUCER P/I	Pressure / ameprage	Own methodology LP 03/05
TRANSDUCER P/V	Pressure / voltage	Own methodology LP 03/05
CALIPER up to 150 mm	Length	Own methodology LP 03/01
MICROMETR GAUGE up to 50 mm	Length	Own methodology LP 03/01
TEMPERATURE MEASURER + GAUGE	Temperature	Own methodology LP 03/04
TEMPERATURE CONTROLLER	Temperature	Own methodology LP 03/04
SCALES up to 50 kg	Mass	Own methodology LP 03/03
SCALES over 50 kg	Mass	Own methodology LP 03/03
Water & sewage		
Water & sewage	pH	PN-EN ISO 10523:2012
	Chlorides	PN-ISO 9297:1994
	Determination of the chemical index of oxygen demand [ChZT]	PN-ISO 15705:2005
	Determination of the biochemical oxygen demand after n-days [BZTn]	PN-EN 1899-1:2002 oraz PN-EN 1899-2:2002
	Suspended solids	PN-EN 872:2007/Ap1
	Nitrate nitrogen	PN-82/C-04576/08



Water & sewage		
Test subject	Test parameter	Test standard
Water & sewage	Sampling	PN-ISO 5667-10:1997; PNEN ISO 5667-3:2013; PNISO 5667-11:2004; PN-ISO 5667-6:2003; PN-74/C-04620/11
	Ammonia nitrogen	PN-ISO-7150-1:2002
	Nitrite	PN-EN 26777:1999
	Total iron	Test method nr 8008 HACH LANGE
	Sulfur	Test method 8051 HACH LANGE
	Total phosphorus	Test method LCK 350 HACH LANGE
	Total nitrogen 20 – 100 mg/l	Test methoda LCK 338 HACH LANGE
	Total nitrogen 5 – 40 mg/l	Test method LCK 238 HACH LANGE
Working environment		
Working environment	Lightning	PN-EN 12464-1:2012; PN 83/E-04040
Working environment	Noise	PN-N-01307/1994
Working environment	Microclimate	PN-EN ISO 7730/2006; PN-EN 27243/2006; PNEN ISO 11079/2008

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