



*Wir gießen
Ihre Ideen
in Form*

We cast your ideas



Kunststofftechnik PUR

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Product information

Characteristic values

ASMAPRENE D-Series

Property	Test specification	Units	Asmaprene D						
			63	75	80	85	90	94	97
Hardness, Shore A/D	ISO 868	Shore A							
		Shore D			33	38	46	50	55
Hardness @100°C, Shore A	ISO 868	Shore A	59	71	75	79	84	90	91
Hardness @120°C, Shore A	ISO 868	Shore A	58	69	74	78	83	89	90
Tensile strength	ISO 37	N/mm ²	29	39	41	43	46	50	50
Elongation	ISO 37	%	560	500	460	430	390	350	240
Tear strength (with nick)	DIN 53515	N/mm	33	42	52	59	65	78	95
Abrasion loss	DIN 53516	mm ³	30	25	23	23	23	29	35
Resilience	ISO 4662	%	46	44	41	39	37	35	33
Compression set 70h/23°C 24h/70°C	ISO 815	%	23	22	21	20	18	18	
			36	35	34	33	31	32	
Specific gravity		g/cm ³	1,20	1,20	1,20	1,20	1,20	1,20	1,20

In this technical datasheet approximate values are indicated. These values are influenceable by processing conditions, modifications, material additives and environmental influences and do not free the user from own examinations and attempts. The values are arranged due to the present experiences and knowledge. A legally obligatory warranty of certain characteristics or the suitability for a concrete targeted application cannot be derived from these data.

Please contact us for further information! www.asmapur.polyurethane.at/Materials

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Charakteristics

ASMAPRENE D-Series

Chemical base	Special polyurethane system
Characteristic	Premium cast polyurethane system with very good physical properties, excellent abrasion resistance, <u>very good resistance against acids and alkaline</u> , <u>very good heat resistance</u> .
Operational area	Ultimate wear resistant roller coverings and molded parts in contact with acids and alkaline (pH-value 1,5-13), strong oxidizing materials (Squeezing rollers, pearl mills). Heat resistant roller coverings and molded parts (embossing rollers, castor wheels, gripper jaw). Special applications in machine- and equipment construction.
Specific advantages	Excellent abrasion resistance, very good heat resistance, very good resistance against acids and alkaline, very good resistance against hydrolysis (hot water), very good cut and tear resistance, very good resistance against UV-impact. Asmaprene D exhibit lowest water vapor permeability of all polyurethane types. With this property Asmaprene D protects the underlying bonding layer against chemical attack in strong environments.
Specific resistance	Generally very good resistance against acids and alkaline, depending on concentration and temperature, very good resistance against oils, fats and hydrocarbon solvents, hydrolysis, Ferric-3-chloride, Formic acid, Propionic acid, Sulfuric acid, Nitric acid, For special applications and higher concentration, contact our technical staff regarding resistance!
Working temperature	Long-term use -20 up to +130°C (dry) @63° Shore A, +150°C (dry) @95° Shore A, in contact with acids and alkaline up to 95°C (wet).
Hardness	63° Shore A to 55° Shore D
Colors	Red, yellow, blue and nature (white)
Alternatives	<u>Asmaprene L</u> (for resistance against acids and alkaline in slight concentration, convenient price). <u>Asmaprene H</u> (for ultimate resistance against hot acids and alkaline in high concentrations).
Remark	