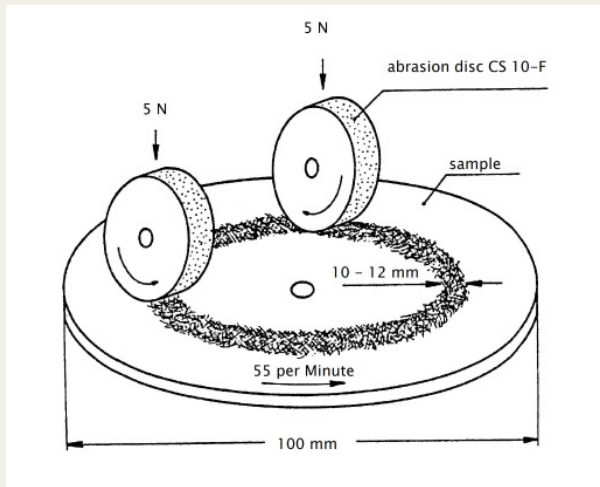


# Scratch resistance and hardness

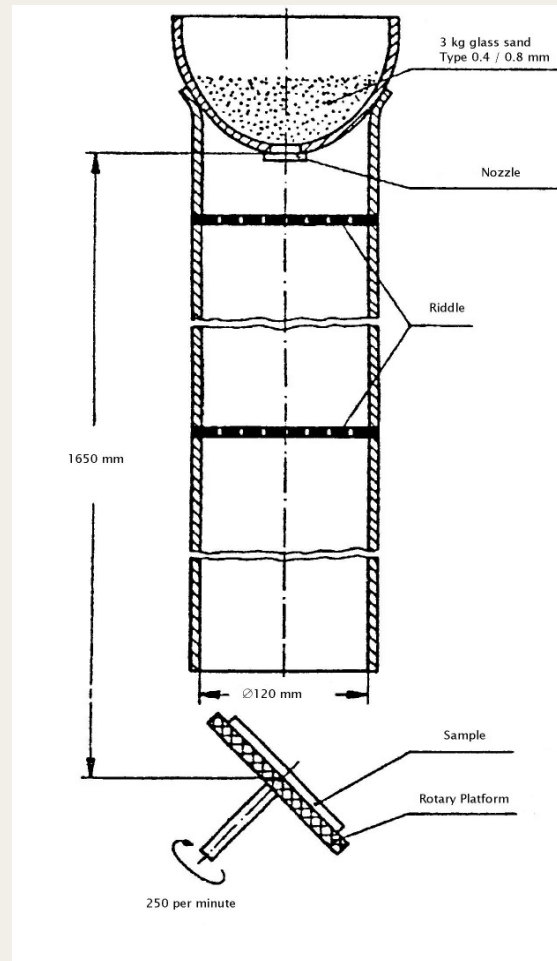
## Scratch resistance and hardness of various Röhm molding compounds

	Abrasive wheel procedure	Free flowing grid procedur	Free flowing grid procedur	Abrasive resistance procedure	Scratch hardness test	Ball hardness test
	2,7 N / 100 turns	(after 3 kg grit)	(after 1,5 kg grit)	(after 100 turns)		
Standard	ASTM D 1044	DIN 52 348 - A1	DIN 67 530	DIN 53 754	ISO 15184	ISO 2039-1
Phys. Size	Haze in %	uncorr I* in (cd/m <sup>2</sup> )/lx	gloss measurement 60°/ Refl.-value [-]	abrasion in mg	degree of hardness	H961/30 in Mpa
PLEXIGLAS® 6N					4H	
PLEXIGLAS® 7N, 7H und 8N	18,5	30,8	58,4	64,8	4H	183
PLEXIGLAS® 8H	17,4	30,9		60,2	3H	178
PLEXIGLAS® Resist zk4BR	15,6	32,5		82,6	3H	165
PLEXIGLAS® Resist zk5BR	14,2	34,1		92,2	F	139
PLEXIGLAS® Resist zk6BR	15	37,4	50	96,4	F	104
PLEXIGLAS® Resist zk6HF	19,2		50	84		97
PLEXIGLAS® Resist zk20	23,4	41		90,7	1H	130
PLEXIGLAS® Resist zk40	23,8	56,2		84,4	F	83
PLEXIGLAS® Resist zk50	34,9	64,7	46,2	63,4	HB	50
PLEXIGLAS® Heatresist hw55	24,0	30		60	3H	211
PLEXIGLAS® Hi-Gloss FT15				69,2	3H	202
PLEXIGLAS® Hi-Gloss NTA-1				90,2	F	166
PLEXIGLAS® Hi-Gloss NTA-3				87,7	F	176
PLEXIGLAS® Hi-Gloss NTA-4				98,4	F	170
PLEXIMID® 8805	30,7	34,45		59,2	4H	201
PLEXIMID® 8813		~ 30				~ 200
PLEXIMID® 8817	30,1	30,15		53,7	3H	211
PLEXIMID® TT70	15,6				4H	

## Schematic Demonstration



**Abrasiv wheel procedur**



**Free flowing grit procedur**

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