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Liquid Silicone Rubber

SILBIONE® LSR 4305 DEV 'Super Soft' Elastomer

January 2005

DEVELOPMENTAL TECHNICAL DATA SHEET

SILBIONE® LSR 4305 DEV is a developmental 5 durometer, health care grade liquid silicone rubber designed for producing high clarity molded parts.

FEATURES

- Superior clarity
- Very low hardness
- Very high elongation
- High tear strength at low durometer
- Excellent mold release for shorter cycle times
- Rapid cure at elevated temperature
- No post cure is needed

TYPICAL APPLICATIONS

- Orthopedic insoles
- Pressure relieving pads
- Prosthetic liners
- Rollers
- Precision molded parts
- Cushioning devices

TYPICAL PROPERTIES

Property	Test Method	Unit	Value	
	CTM			
Appearance	TP 038		Clear, thixotropic liquid	
Specific Gravity	TP 013		1.08	
Pot Life, 23°C	NM 128	hours	≥ 72	
Viscosity		cps	44,000	
	ASTM			
Hardness	D 2240	Shore OO (A)	Press Cured¹ 2 minutes, 177°C	Post Cured¹ 4 hours, 200°C
Tensile Strength	D 412	psi (N/mm ²)	45 (5)	45 (5)
Elongation	D 412	%	450 (3.1)	490 (3.4)
Tear Strength	D 624, Die B	ppi (N/mm)	980	980
Modulus 100%	D 412	psi (N/mm ²)	60 (10.5)	55 (10.0)
Modulus 200%	D 412	psi (N/mm ²)	15 (0.10)	15 (0.10)
Modulus 300%	D 412	psi (N/mm ²)	25 (0.17)	30 (0.21)
			35 (0.24)	40 (0.28)

¹ ASTM Slab 6"x6"x0.07"

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of Silbione® silicone materials. Please contact our Technical Service Department for assistance in writing specifications.



Silicones