



## Technical Data Sheet for Coating Ball/Sphere by Polyurethane or Metal

Typical Properties of Coating	Polyurethane	Typical Properties of Coating	Metal(Silver)
Thickness of coating film, micron	0.02 - 0.03	Thickness of coating film, micron	0.1 - 1.5
Maximum tolerated gap of coating film, %	0.2	Coating film chemical purity %	99.90+99.99
Temperatures softening glass/sphere °K	700/1550	Electro conductivity, $\Omega\text{m}/\text{cm}$ at 0 °C	0.00159
* Relative strength at break, MPa	0.56	Thermal conductivity, $\text{W}/\text{m}^{\circ}\text{K}^{-1}$ at 20 °C	419
Chemical stability to the water, time	3	Diameter glass ball, micron	0-500
Chemical stability * relative to the acid, time	2	Chemical composition of glass: $\text{SiO}_2$ - 72.1+0.3%; $\text{MgO}$ - 4.00+0.2%; $\text{CaO}$ - 6.25+0.2%; $\text{Na}_2\text{O}$ - 15.00+0.2%; $\text{Al}_2\text{O}_3$ - 2.2+0.14%; $\text{Fe}_2\text{O}_3$ - no more than 0.2%.	
Chemical stability * relative to the alcali, time	2.5		

### Properties latex films filled with coating glassball by PU

Index PU	Fraction (Micron)	Content GB %	Specifications polyurethane				Firmness	
			$\sigma_p$ , MPa	$\epsilon_p$ , MPa	$\sigma_{100}$ %			
SPRP --PFR -100**	< 100	60	16,1	360	6,3	95	* relative to standard PU	
SPRP-PFR -100	100-160	60	13,7	300	5,5	97		
SPRP-PFR -100	100-200	60	10,3	295	6,4	98		
SPRP-PFR -100	< 300	60	10,3	225	7,9	97	** SPR-PFR- Synthetic Polyurethane Rubber based on Polyfurite	
SPRP-PFR -74	< 29	40	2,8	470	0,8	60		
SPRP-PFR -74	46-100	40	5,7	420	1,8	85		
SPRP-PFR -74	< 100	40	16,2	410	4,3	90	***SPR-PPL- Synthetic Polyurethane Rubber based on Polypropilene	
SPRP-PFR -74	100-200	40	14,2	400	5,3	93		
SPR-PPL -65****	< 100	60	10,8	290	3,8	92		
SPR-PPL -65	100-200	60	9,0	210	4,6	97	**** PRP- Polyurethane Rubber based on Polyester	
SPR-PPL -65	< 300	60	9,2	130	4,7	94		
PRP-4****	< 100	40	5,9	540	1,7	75		
PRP-4	100-200	40	5,4	415	2,3	84		
PRP-4	< 300	40	5,5	380	2,8	80		

## Product Order & Inquiries

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