



## PHOTOGRAPHIC HIGH-RESOLUTION FILM

VRP High-resolution photo film is designed for manufacturing of precision photographic masks.  
VRP High-resolution photo film is to be according to the qualitative values indicated below in the table.

### Characteristics

Name of Indices	Values
<b>1. Sensitometric Indices</b>	
1.1. General Light Sensitivity ( $S_{0,9}$ ) unites GOST 10691.1-84 after chemical-photographic processing condition in negative mode, not less than	0,012
1.2. Gamma, ( $\gamma$ ), not less than	5,0
1.3. Fog Density, ( $D_0$ ), B, not more than	0,03
1.4. Maximum Density on the characteristic curve, $D_{max}$ , B, not less than	3,0
<b>2. Spectral Indices</b>	
2.1. Maximum of spectral sensitization, nm	525±5
2.2. Zone of spectral sensitization, nm	410-565
<b>3. Structural-metric Indices</b>	
3.1. Resolving Power, R, $mm^{-1}$ , not less than	1570
<b>4. Physical – mechanical Indices</b>	
4.1. Adhesion between emulsion layer and base after chemical photographic processing, conventional classes A-F	A-C
4.2. Strength of emulsion layer after chemical photographic processing, H (gram-force), not less than	400
4.3. Temperature of emulsion layer deformation in alkaline-sulfite solution, Tdef. °C, not less than	90
4.4. Thickness of photo layer, micrometer	6,5±1,0
4.5. Antihalation protection	NO



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### Chemical-Photographic processing conditions of VRP photographic film:

Name of the stages	Temperature of solutions, water, air, °C	Processing time, min.
1. Development in VRP-M developer	20,0±0,5	4,0-6,0
2. Washing in water	17,0±3,0	0,1-0,2
3. Fixing	20,0±2,0	5,0-10,0
4. Washing in water	17,0±3,0	5,0-10,0
5. Drying in the open air	20,0±5,0	to be dried out completely

Photo film is manufactured in rolls and sheets.

The sizes of film are agreed with a customer.

Thickness of base are ranged  $175\pm 5$ ,  $190\pm 5$  micrometers.

Open and process the photographic films under indirect safe light conditions with using a **dark-red** light-filter № 107 for **VRP**, **VRP-M**, **PFG-04** photographic films, and with using a **dark-green** light-filter № 170 for **PFG-01**, **PFG-03M** photographic films, and for **PFG-03C** photographic film with using light-filter № 107 and № 170.

Climate conditions for photographic films usage: temperature of environment is  $(20 \pm 5)^\circ\text{C}$ , relative humidity of air  $(65 \pm 15)\%$ .

#### Guaranteed shelf life of photo films:

- in rolls - 18 months.

- in sheets: VRP, VRP-M, PFG-01, PFG-04 - 12 months.

PFG-03M, PFG- 03C – 6 months.