# Data Sheet

**N-KZFS5**  
654397.304  

## Refractive Indices

<table>
<thead>
<tr>
<th>( \lambda ) [nm]</th>
<th>( \mathcal{N}_{025.4} )</th>
<th>( \mathcal{N}_{293.6} )</th>
<th>( \mathcal{N}_{1000.0} )</th>
<th>( \mathcal{N}_i )</th>
<th>( \mathcal{N}_p )</th>
<th>( \mathcal{N}_s )</th>
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## Internal Transmittance \( \tau_i \)

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<th>( \lambda ) [nm]</th>
<th>( \tau_i ) [10mm]</th>
<th>( \tau_i ) [25mm]</th>
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## Relative Partial Dispersion

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<th>( \Delta \mathcal{P} ) from the normal line</th>
<th>( \Delta \mathcal{P}_{G1} )</th>
<th>( \Delta \mathcal{P}_{C1} )</th>
<th>( \Delta \mathcal{P}_{C2} )</th>
<th>( \Delta \mathcal{P}_{s1} )</th>
<th>( \Delta \mathcal{P}_{d1} )</th>
<th>( \Delta \mathcal{P}_{F1} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \Delta \mathcal{P}_{G1} )</td>
<td>0.0248</td>
<td>0.0115</td>
<td>-0.0021</td>
<td>0.0060</td>
<td>-0.0286</td>
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<td>( \Delta \mathcal{P}_{C1} )</td>
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<td>( \Delta \mathcal{P}_{C2} )</td>
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<td>( \Delta \mathcal{P}_{s1} )</td>
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<tr>
<td>( \Delta \mathcal{P}_{d1} )</td>
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<tr>
<td>( \Delta \mathcal{P}_{F1} )</td>
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## Other Properties

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>( \alpha_{30-60{^\circ}C} ) ( [10^{-5}/K] )</td>
<td>6.4</td>
</tr>
<tr>
<td>( \alpha_{20-30{^\circ}C} ) ( [10^{-5}/K] )</td>
<td>7.4</td>
</tr>
<tr>
<td>( T_f ) ( [^\circ]C )</td>
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</tr>
<tr>
<td>( T_f ) ( [11{^\circ}]C )</td>
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<td>( T_f ) ( [2{^\circ}]C )</td>
<td>739</td>
</tr>
<tr>
<td>( c_p ) ( [g/(g*K)] )</td>
<td>0.730</td>
</tr>
<tr>
<td>( \lambda ) ( [W/(m*K)] )</td>
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<tr>
<td>( AT ) ( [^\circ]C )</td>
<td>648</td>
</tr>
<tr>
<td>( p ) ( [g/cm^2] )</td>
<td>3.04</td>
</tr>
<tr>
<td>( E ) ( [10^{16}N/mm^2] )</td>
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</tr>
<tr>
<td>( \mu ) ( [g/cm^2] )</td>
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<td>( K ) ( [10^{-6}mm/m^K] )</td>
<td>3.57</td>
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<tr>
<td>( HK_{1200} )</td>
<td>555</td>
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</tbody>
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## Color Code

\( \lambda_{254} / \lambda_s = 37/32 \)  
\( \text{Color Code} \)

## Remarks

Suitable for precision molding, step 0.5 available

## Temperature Coefficients of the Refractive Index

<table>
<thead>
<tr>
<th>( ^{[\text{C}]} )</th>
<th>( \Delta n_{\text{abs}}/\Delta T ) ( [10^{-6}/K] )</th>
<th>( \Delta n_{\text{rel}}/\Delta T ) ( [10^{-6}/K] )</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40/-20</td>
<td>4.2</td>
<td>5.3</td>
</tr>
<tr>
<td>+20/+40</td>
<td>4.2</td>
<td>5.3</td>
</tr>
<tr>
<td>+60/+80</td>
<td>4.4</td>
<td>5.4</td>
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## As of 01-Feb-2014, subject to change