

| DATA SHEET   |          |         | TBF11   |          |           | 832 430                              |         |          |  |
|--|----------|---------|---|----------|-----------|--------------------------------------|---------|----------|--|
| Refractive Index                                   | nd       | 1,83277 | Abbe Number   | Vd       | 43,08     | Dispersion                           | nF-nC   | 0,019330 |  |
|  | ne       | 1,83737 |   | Ve       | 42,83     |                                      | nF'-nC' | 0,019550 |  |
| <u>Refractive Indices</u>                          |          |         | <u>Partial Dispersions</u>                          |          |           | <u>Realative Partial Dispersions</u> |         |          |  |
| ni   | 365,00   | 1,88241 | nF-nC   | 0,019330 | Pe (i,h)  | 0,8180                               |         |          |  |
| nh   | 404,66   | 1,86641 | nF'-nC'   | 0,019550 | Pe (h,g)  | 0,4700                               |         |          |  |
| ng   | 435,83   | 1,85722 | <u>Deviation of Realative Partial Dispersions</u>   |          |           | Pe (g,F')                            | 0,4989  |          |  |
| nF'  | 479,99   | 1,84747 | delta Pe (i,F')                                     | -0,0710  | Pe (F',e) | 0,5167                               |         |          |  |
| n488,0   | 488,00   | 1,84601 | delta Pe (g,F')                                     | -0,0079  | Pe (e,d)  | 0,2351                               |         |          |  |
| ne   | 546,07   | 1,83737 | delta Pe (F',e)                                     | -0,0018  | Pe (d,C') | 0,2482                               |         |          |  |
| nd   | 587,56   | 1,83277 | delta Pe (F',r)                                     | 0,0015   | Pe (e,C') | 0,4833                               |         |          |  |
| n632,8   | 632,80   | 1,82876 | <u>Chemical Properties</u>                          |          |           | Pe (C,r)                             | 0,2120  |          |  |
| nC'  | 643,85   | 1,82792 | Water Resistance                                    | WRs      | s         | Pe (r,s)                             | 0,3340  |          |  |
| n694,3   | 694,30   | 1,82450 | Acide Resistance                                    | AR*      | 4         | Pe (s,t)                             | 0,2390  |          |  |
| nr   | 706,52   | 1,82378 |   |          |           | <u>Internal Transmittance</u>        |         |          |  |
| ns   | 852,10   | 1,81725 |   |          |           | 10 mm                                |         |          |  |
| nt   | 1 013,90 | 1,81257 |   |          |           | T 365                                | 0,683   |          |  |
| n1060,0  | 1 060,00 | 1,81150 |   |          |           | T 400                                | 0,928   |          |  |
| <u>Termal Properties</u>                           |          |         | <u>Mechanical Properties</u>                        |          |           | T 440                                | 0,974   |          |  |
| Transformation Temperature, C                      | Tg       | 650     | Density, g/c.cm.                                    | SG       | 5,07      | T 550                                | 0,995   |          |  |
| Expansion Coefficient, 10 <sup>-7</sup> /C         | Alpha    | 64      | Grindability  | HG       | HG1       | T 640                                | 0,996   |          |  |
|  |          |         | Knoop Hardness                                      | KH       | -         | Ta                                   | 0,995   |          |  |
|  |          |         | Photoelastic Coefficient, nm\cm 10 <sup>-5</sup> Pa | K        | 1,70      |                                      |         |          |  |
| <u>Temperature Coefficient of Refractive Index</u> |          |         |   |          |           | <u>Other Properties</u>              |         |          |  |
| Range of Temperature, C: - 60 ... 20, C'-Line      |          |         | NTabs   | 47       | Bubble    |                                      | B       | 4        |  |
| Range of Temperature, C: 20 ... 120, C'-Line       |          |         | NTabs   | 72       | Farbcode  |                                      | FC      | 37\35    |  |
| <b>PG&amp;F, TM (UA)</b>                           |          |         | <b>113</b>  |          |           | <b>4 492 278 000</b>                 |         |          |  |