

# POLYCARBONATE

## PC-008

| MANUFACTURER                  | PJSC "Kazanorgsintez"  |  |
|-------------------------------|--|--|
| PRODUCTION METHOD             | Melt polycondensation of diphenylcarbonate and Bisphenol A.  |  |
| APPLICATION                   | Production of goods through extrusion and injection molding.   |  |
| SPECIFICATIONS                | PARAMETER  | EXTRA GRADE                                  |
|                               | Melt flow index (MFI), g/10 min at load of 1.2 kgf and 300°C   | 8±1.0  |
|                               | Melt flow index spread within one batch, %, maximum  | All spot samples should correspond to pos. 1 |
|                               | Visible contaminations (impurities), pcs/100 g, maximum  | 5  |
|                               | Haze, %, maximum   | 0.8  |
|                               | Transmittance ratio, %, minimum  | 89   |
|                               | Tensile yield strength, MPa, minimum   | 60   |
|                               | Elongation at break, %, minimum  | 120  |
|                               | Bending stress at maximum sample load, MPa, minimum  | 90   |
|                               | Flexural modulus, MPa, minimum   | 2250   |
|                               | Isode impact strength, kJ/m², minimum  | 75   |
|                               | Compression stress at yield, MPa, minimum  | 76   |
|                               | Vicat softening temperature, °C, minimum   | 150  |
|                               | Blue and yellowness index  | 1.6-2.2                                      |
|                               | For PC-L   | 1.3-1.6                                      |
|                               | For PC-L1  | 0.8-1.3                                      |
| PACKING, HANDLING AND STORAGE | Transparency and brightness index, minimum   | 90   |
|                               | Packing in bags as per GOST 17811 or similar polymer bags as per technical documentation approved under appropriate procedure and related to import as well. Bag neck should be sealed. Polycarbonates are also packaged into sealed soft special purpose big-bags for bulk products as per technical documentation approved under the appropriate procedure and related to import as well. Packages should be tightly sewed. Polycarbonate weight for bags should be 25 (±0.25) kg, for big-bags – 750 (±3.75) kg, 1000 (±5.0) kg. Transportation by all means of roofed transport in accordance with rules of carriage related to this mode of transport. Storage indoors preventing exposure to direct sunlight at the distance of 1 m minimum from heating appliances and at temperature exceeding 35°C. |  |