

● **POLYCARBONATES  
MEDIUM VISCOSITY**

**PC-010**

TU 2226-173-00203335-2007, rev. 1-9

Production method: polycondensation in diphenylcarbonate and bisphenol-A melt.

Application: production of goods through injection molding.

No.	Parameter	Standard
1	Melt flow index, g/10 min, at 1.2 kgf, at 300 °C	10.0±1.5
2	Spread of melt flow index within one batch, %, max.	All spot samples shall correspond to item no. 1
3	Number of visible contaminations (impurities) pcs./100 g, max	5
4	Haze, %, max.	0.8
5	Transmission factor, %, min.	89
6	Tensile stress at yield, Mpa, min.	60
7	Elongation at break, %, min.	120
8	Bending stress at max. sample load, MPa, min.	90
9	Modulus of elasticity in flexure, Mpa, min.	2250
10	Isode impact strength, kJ/m <sup>2</sup> , min.	75
11	Compressive stress at yield, Pa, min.	76
12	Vicat softening temperature °C, min.	150
13	Blue and yellowness index (b*) for PC-L for PC-L1	1.6-2.2 1.3-1.6 0.8-1.3
14	Transparency and brightness index, min.	90

Note: Description of additional indices to base grades as follows:

U – ultraviolet stabilized grades;

R – improved antistick properties;

L, L1 – low b\* (yellowness and blue) index value: 1.3-1.6; 0.8-1.3

Norms and requirements for PC quality parameters with additional indices are the same as for PC grades without additional indices.

Packing: polycarbonates are packed in bags as per GOST17811 or in similar polymer bags in accordance with technical documentation approved under the appropriate procedure, including that related to imports. The bags neck should be sealed. Polycarbonates can also be packed in sealed soft special containers for bulk solids as per technical documentation approved under the appropriate procedure, including that related to imports. Packings should be tightly sewed. Polycarbonate weight in bag should be 25 (±0.25) kg, in containers - 750 (±3.75) kg or 1000 (±5.0) kg.

Handling and storage: transportation by any modes of roofed transport in accordance with transport regulations valid for the related mode of transport. To be stored indoors excluding direct sun and at least 1 m away from heating devices at temperature not exceeding 35 °C.



Polycarbonate for injection molded articles of PC-010U grade is a winner of “100 Best Goods of Russia 2010” and “Best Goods in the Republic of Tatarstan 2010” Contests.