

HIGH VISCOSITY POLYCARBONATE

PC - 003

Extrusion – Injection-Blow molding – Injection molding

Typical applications

Grade PC-003 is intended for manufacturing of industrial-used products by extrusion or injection-blow molding, injection molding, such as locking panels and articles in contact with food and drinking water.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³ at 23°C	1.20
2.	Melt flow index (MFI) g/10 min at 300°C with 1,20 kgf	2,5 ± 1.0
3.	Tensile yield strength, MPa, minimum	60
4.	Elongation at break, %, minimum	120
5.	Cross-bending stress at max. sample load, MPa, minimum	90
6.	Flexural modulus, MPa, minimum	2250
7.	Izod impact strength, kJ/m ² , minimum	75
8.	Compression stress at yield, MPa, minimum	76
9.	Vicat softening temperature, °C, minimum	150
10.	Number of visible impurities (inclusions), balls/100g, maximum	5
11.	Haze, %, maximum	0.8
12.	Yellowness and blueness index for PC – L for PC - L1	1.6-2.2 1.3-1.6 0.8-1.3
13.	Transparency and brightness index, minimum	89
14.	Transmission factor %, minimum	89

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 are the same as for PC grades without additional indices.

Supply form: Pellets

Packing: The product is packed in polymer bags. The bags neck should be sealed on. Polycarbonates are also packaged in sealed soft containers for bulk solids. Packages should be tightly sewed. Polycarbonate weight in bag should be 25±0.25kg. In big-bag 750±3.75 kg, 850±4.25kg, 1000±5.0kg.

Transportation: by all modes of transport

Storage: Polycarbonates shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 35°C.

Information contained herein is provided to the best of our knowledge and is considered true on the revision date. This specification does not release a customer from obligation to check the product as to suitability thereof for the intended application. A producer shall not be liable for any loss and damage that might occur due to use of this information