

POLYCARBONATE

TU 2226-173-00203335-2007 Polycarbonate licensed by Asahi Kasei Chemicals Corporation

PC-005, PC-007 - Polycarbonates, used for production by extrusion and casting under pressure;

MAIN QUALITY SPECIFICATIONS							
			Rate for				
		PC-005		PC-007			
	Superior	First	Second	Superior	First	Second	Test
Parameter Name	Class	Class	Class	Class	Class	Class	Method
1 Melt flow index, g/10 min, at							
1,2 kgf load, 300°C temperature	5.0±1.0	5.0±1.0	5.0±1.0	7.0±1.0	7.0±1.0	7.0±1.0	4.4
2 Coursed of wealth flows in decision	All single			All single			
2 Spread of melt flow index in the range of one batch, %, not	samples should correspond to			samples should correspond to			
more	the index 1	25	30	the index 1	20	25	4.4a
3 Quantity of visible							
contaminations (impurities), p/100	5	10	N/A	5	10	N/A	4.5
g., not more	3	10	IN/A	3	10	IN/A	т.5
4 Turbidity, %, not more	0.8	0.8	1.0	0.8	0.8	1.0	4.7
5 Transmittingfactor, %, not less	89	89	85	89	89	85	4.7
C. In day, of water atting at 2000 in							
6 Index of refractive at 20°C, in the range	-	-	-	_	_	-	GOST 19927
7 Tensile yield stress, MPa, not							
less	60	58	55	60	58	55	4.8
8 Elongation at rupture, %, not							
less	100	100	80	100	100	80	4.8
9 Bending stress at maximum	90	90	80	80	80	70	4.9
sample load, Mpa, not less	90	90	00	60	00	70	4.9
10 Bending elastic modulus, MPa, not less	2250	2250	2000	2250	2250	2000	4.10
11 Izod impact strength, kJ/m2,							
not less	66	66	60	66	66	60	4.11
12 Compression stress at yield							
point , MPa, not less	76	70	70	76	70	70	4.12
13 Vicat softening temperature °C, not less	147	147	147	147	147	147	4.13
14 Yellowness and blueness index	1,6-2,2	1,0-3,5	N/A	1,6-2,2	1,0-3,5	N/A	1.13
for PC- L	1,35-1,65	-	-	1,35-1,65	-	-	4.14
15 Transparence and brightness							
index, not less	90	90	N/A	90	90	N/A	4.14
16 Dielectric capacity at frequency							
of 10 ⁶ , Hz, not more	3,1	N/A	N/A	3,1	N/A	N/A	4.15
17 Loss tangent, 10 ⁶ Hz, not more	0.000	NI/A	N/A	0.000	NI/A	NI/A	A 15
18 Electric strength kV/mm, not	0,009	N/A	N/A	0,009	N/A	N/A	4.15
less	20	N/A	N/A	20	N/A	N/A	4.16





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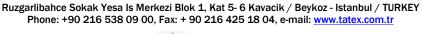
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PC-010 – Polycarbonates, used for production by casting under pressure;

PC-075- Polycarbonates, used for prodcution by casting under pressure of optical products (including CD-,

DVD- and other Disks), and for production of mixture compositions with other plastic.

MAIN QUALITY SPECIFICATIONS							
	PC-010			PC-075			
Parameter Name	Superior Class	First Class	Second Class	Optical Grade	Test Method		
1 Melt flow index, g/10 min,	Ciass	i ii st Ciass	Ciass	Optical Grade	rest Method		
at 1,2 kgf load, 300°C							
temperature	10.0±1.5	10.0±1.5	10.0±1.5	10.30±0.25	4.4		
2 Spread of melt flow index in	All single samples should						
the range of one batch, %, not	correspond to						
more	the index 1	15	20	-	4.4a		
3 Quantity of visible contaminations (impurities),							
p/100 g., not more	5	10	N/A	-	4.5		
4 Turbidity, %, not more	0.8	0.8	1.0	0.8	4.7		
5 Transmittingfactor, %, not less	89	89	85	89	4.7		
6 Index of refractive at 20°C, in				1.584-			
the range	-	-	-	1.586	GOST 19927		
7 Tensile yield stress, MPa, not							
less	60	58	55	60	4.8		
8 Elongation at rupture, %, not							
less	100	100	80	50	4.8		
9 Bending stress at maximum sample load, Mpa, not less	80	80	70	90	4.9		
	80	80	70	90	4.9		
10 Bending elastic modulus, MPa, not less	2250	2250	2000	2250	4.10		
11 Izod impact strength, kJ/m2,							
not less	66	66	60	-	4.11		
12 Compression stress at yield							
point , MPa, not less	76	70	70	-	4.12		
13 Vicat softening temperature °C, not less	147	147	147	_	4.13		
14 Yellowness and blueness index	1,6-2,2	1,0-3,5	N/A		1.13		
for PC- L	1,35-1,65	-	-	Less than 3.5	4.14		
15 Transparence and brightness							
index, not less	90	90	N/A	91	4.14		
16 Diologtric capacity at fragues							
16 Dielectric capacity at frequency of 10 ⁶ , Hz, not more	3,1	N/A	N/A	-	4.15		
17 Loss tangent, 10 ⁶ Hz, not more	0,009	N/A	N/A	-	4.15		
18 Electric strength kV/mm, not							
less	20	N/A	N/A	-	4.16		







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PC-015, PC-022 -Polycarbonates, used for production by casting under pressure;

MAIN QUALITY SPECIFICATIONS								
	Rate for Grade							
			PC-022					
	Superior	First	Second	Superior	First	Second		
Parameter Name	Class	Class	Class	Class	Class	Class	Test Method	
1 Melt flow index, g/10 min, at 1,2 kgf load, 300°C	15 0 1 1 5	15.011.0	15.011.5	22.012.0	22.012.0	22.012.0	4.4	
temperature	15.0±1.5 All single	15.0±1.0	15.0±1.5	22.0±2.0 All single	22.0±2.0	22.0±2.0	4.4	
2 Spread of melt flow index in the range of one batch, %,	samples should correspond to	12	20	samples should correspond to	10	15	4.45	
not more 3 Quantity of visible	the index 1	12	20	the index 1	10	15	4.4a	
contaminations (impurities), p/100 g., not more	5	10	N/A	5	10	N/A	4.5	
4 Turbidity, %, not more	0.8	0.8	1.0	0.8	0.8	1.0	4.7	
5 Transmittingfactor, %, not less	89	89	85	89	89	85	4.7	
1033	03	03	- 03	03	- 03	03	,	
6 Index of refractive at 20°C, in the range	-	-	-	-	-	-	GOST 19927	
7 Tensile yield stress, MPa, not less	60	58	55	60	58	55	4.8	
8 Elongation at rupture, %, not less	100	100	80	60	60	50	4.8	
9 Bending stress at maximum sample load, Mpa, not less	-	-	-	-	-	-	4.9	
10 Bending elastic modulus, MPa, not less	-	-	-	-	-	-	4.10	
11 Izod impact strength, kJ/m2, not less	66	66	60	63	57	57	4.11	
12 Compression stress at yield point , MPa, not less	-	-	-	-	-	-	4.12	
13 Vicat softening temperature °C, not less	147	147	147	147	147	147	4.13	
14 Yellowness and blueness	1,6-2,2	1025		1,6-2,2	1025			
index for PC- L	1,35-1,65	1,0-3,5 -	N/A	1,35-1,65	1,0-3,5 -	N/A	4.14	
15 Transparence and brightness index, not less	90	90	N/A	90	90	N/A	4.14	
16 Dielectric capacity at frequency of 106, Hz, not								
more	3,1	N/A	N/A	3,1	N/A	N/A	4.15	
17 Loss tangent, 106 Hz, not more	0,009	N/A	N/A	0,009	N/A	N/A	4.15	
18 Electric strength kV/mm, not less	20	N/A	N/A	20	N/A	N/A	4.16	

