

## GPC 5970

Poly Carbonate (PC)

### Application

Suitable for Injection Molding.



PROPERTY	UNIT	VALUE	TEST METHOD	CONDITION
<b>GENERAL PROPERTY</b>				
DENSITY	g/cm <sup>3</sup>	1.20	ASTM D-792	-----
MELT FLOW RATE (MFR)	g/10 mins	59.1-70.0	ASTM D-1238	@ 300 ° C 1.2 kgs
<b>MECHANICAL PROPERTY</b>				
TENSILE STRENGTH	MPa	≥ 60	ASTM D-638	@Yield
TENSILE STRESS	MPa	55 -70	ASTM D-638	@ Yield
ELONGATION STRAIN	%	> 50	ASTM D-638	@ Break
MODULUS OF ELASTICITY	MPa	2200 -2400	ASTM D-638	-----
BALL INDENTATION	N/mm <sup>2</sup>	≥103	DIN 53456	-----
<b>ELECTRICAL PROPERTY</b>				
DI-ELECTRIC STRENGTH	Kv/mm	≥ 20	ASTM D-149	@ 50 Hz
DI-ELECTRIC CONSTANT	-----	2.8-3.1	ASTM D-150	@ 1 Mhz
LOSS INDEX	-----	0.008 -0.011	ASTM D-150	@ 1 Mhz
LOSS INDEX	-----	0.0008 -0.001	ASTM D-150	@ 50 Mhz
<b>THERMAL PROPERTY</b>				
VICAT SOFTENING	° C	140 -150	ASTM D- 1525	50 N, 50 ° C /h
<b>OPTICAL PROPERTY</b>				
TRANSMITTANCE	%	≥ 80	ASTM D-1003	@ Thickness 2 mm
SOLVENT CONTENT	ppm	500 max	GC	-----

Producer: Khouzestan Petrochemical Company (KZPC)

Licensor: Salzgitter, Germany

Packing: 500-1000 kg Big Bag, 25 Kg Bags

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