

# LEXANT™ RESIN OQ2720

REGION ASIA

## DESCRIPTION

Ophthalmic/safety lens market. OQ2xxx series in all transparent tints. Dedicated equipment, stringent production control conditions.

## TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	68	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	135	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	96	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D 790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	907	J/m	ASTM D 256
Tensile Impact, Type S	640	kJ/m <sup>2</sup>	ASTM D 1822
Instrumented Impact Energy @ peak, 23°C	65	J	ASTM D 3763
<b>THERMAL</b>			
HDT, 1.82 MPa, 6.4 mm, unannealed	132	°C	ASTM D 648
<b>PHYSICAL</b>			
Specific Gravity	1.2	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	7.5	g/10 min	ASTM D 1238
<b>OPTICAL</b>			
Light Transmission, 2.54 mm	89	%	ASTM D 1003
Haze, 2.54 mm	0.6	%	ASTM D 1003
Refractive Index	1.586	-	ASTM D542
Yellowness Index	0	-	ASTM D 1925
<b>INJECTION MOLDING</b>			
Drying Temperature	120	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	48	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	310 – 330	°C	
Nozzle Temperature	305 – 325	°C	
Front - Zone 3 Temperature	310 – 330	°C	
Middle - Zone 2 Temperature	300 – 320	°C	
Rear - Zone 1 Temperature	290 – 310	°C	
Mold Temperature	80 – 115	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	



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