LNP™ ELCRES™ EXL9434

DESCRIPTION

LNP™ ELCRES™ EXL9434 is opaque PC-Siloxane copolymer with excellent processability for injection molding, improved robust impact performance under -40C and chemical resistance. UV stabilized. UL rated V-0. Available in some tailored colors, please contact your SABIC Specialty representative.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	53	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	62	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	6	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	126	%	ASTM D 638
Tensile Modulus, 50 mm/min	2070	MPa	ASTM D 638
IMPACT			
Izod Impact, notched, 23°C	820	J/m	ASTM D 256
Izod Impact, notched, 0°C	750	J/m	ASTM D 256
Izod Impact, notched, -30°C	700	J/m	ASTM D 256
Izod Impact, notched, -40°C	700	J/m	ASTM D 256
Izod Impact, notched, -50°C	560	J/m	ASTM D 256
THERMAL			
Vicat Softening Temp, Rate B/120	144	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	137	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	124	°C	ASTM D 648
PHYSICAL			
Mold Shrinkage, flow	0.61	%	SABIC method
Mold Shrinkage, xflow	0.64	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	10	g/10 min	ASTM D 1238
INJECTION MOLDING			
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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