LNP™ ELCRES™ CRX9411

DESCRIPTION

LNP ELCRES CRX9411 is an amorphous PC copolymer resin that offers medium flow, UL V0 rating @ 1.5 mm, and high ductility in combination with excellent chemical resistance. CRX9411 is available for custom coloring and may be an excellent candidate for a wide variety of applications that need improved chemical resistance.

TYPICAL PROPERTY VALUES

Revision 20200211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	52	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	6	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	>100	%	ASTM D 638
Tensile Modulus, 50 mm/min	1920	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2000	MPa	ASTM D 790
Flexural Strength, 1.3 mm/min, 50 mm span	85	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	765	J/m	ASTM D 256
Izod Impact, notched, -30°C	680	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
HDT, 0.45 MPa, 3.2 mm, unannealed	138	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	142	°C	ASTM D 1525
Vicat Softening Temp, Rate B/120	146	°C	ASTM D 1525
PHYSICAL			
Specific Gravity	1.2	-	ASTM D 792
Mold Shrinkage, flow	0.6 – 1	%	SABIC method
Mold Shrinkage, xflow	0.6 – 1	%	SABIC method
Melt Volume Rate, MVR at 300°C/1.2 kg	9.5	cm³/10 min	ASTM D 1238
Melt Flow Rate, 300°C/1.2 kgf	10	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating [1]	≥1.5	mm	UL 94 by SABIC-IP
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	12	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	290 – 340	°C	
Rear - Zone 1 Temperature	270 – 320	°C	
Middle - Zone 2 Temperature	280 – 330	°C	
Front - Zone 3 Temperature	290 – 340	°C	
Nozzle Temperature	290 – 340	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.3 – 0.7	MPa	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Screw Speed	50 – 100	rpm	
Shot to Cylinder Size	40 – 80	%	
Vent Depth	0.025 – 0.076	mm	

(1) UL rating shown here is based on internal measurements.

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