LNP™ LUBRICOMP™ COMPOUND LCL33EXQ

LCL33EXQ

DESCRIPTION

LNP LUBRICOMP LCL33EXQ is a compound based on Polyetheretherketone containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Easy Molding.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	185	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	16000	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	277	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	13400	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	181	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	13960	MPa	ISO 527
Flexural Stress	276	MPa	ISO 178
Flexural Modulus, 2 mm/min	13530	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	320	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.45	-	ASTM D 792
Melt Volume Rate, MVR at 300°C/5.0 kg	30	cm³/10 min	ASTM D 1238
Poisson's Ratio	0.43	-	ISO 527-1/2
Wear Factor Washer	14	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.37	-	ASTM D 3702 Modified: Manual
Static COF	0.35	-	ASTM D 3702 Modified: Manual
INJECTION MOLDING			
Drying Temperature	150	°C	
Drying Time	4 – 6	hrs	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	370 – 380	°C	
Mold Temperature	175 – 190	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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