LNP™ STAT-KON™ COMPOUND DEL36P

DCL-4036 EP

DESCRIPTION

LNP* STATKON* DEL36P is a compound based on Polycarbonate resin containing 30% Carbon Fiber, 15% PTFE. Added features include: Internally Lubricated, Exceptional Processing.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	148	MPa	ISO 527
Tensile Stress, break, 5 mm/min	148	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.3	%	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	22100	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	179	MPa	ISO 178
Flexural Stress, break, 2 mm/min	177	MPa	ISO 178
Flexural Strain, break, 2 mm/min	1.5	%	ISO 178
Flexural Modulus, 2 mm/min	15400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	20	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	2.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.3E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	136	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	0.1 – 0.3	%	SABIC method
Wear Factor Washer	9	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.55	-	ASTM D 3702 Modified: Instr.
Static COF	0.66	-	ASTM D 3702 Modified: Instr.
Density	1.42	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.1	%	ISO 62-1
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+04	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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