LNP™ LUBRICOMP™ COMPOUND OCP34E

OCL-4534 EM
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* OCP34E is a compound based on PPS - Linear resin containing 20% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Easy Molding, Electrically Conductive, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181220

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	164	MPa	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	18960	MPa	ASTM D 638
Flexural Stress	231	MPa	ASTM D 790
Flexural Modulus	14960	MPa	ASTM D 790
Tensile Stress, break	159	MPa	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	16590	MPa	ISO 527
Flexural Stress	236	MPa	ISO 178
Flexural Modulus	15320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	389	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	265	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	260	°C	ISO 75/Af
PHYSICAL			
Density	1.46	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.08	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.39	%	ISO 294
Density	1.46	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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