

LNP™ LUBRICOMP™ OCP34E compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OCP34E is a compound based on PPS - Linear resin containing Silicone, Carbon Fiber, PTFE. Added features of this material include: Easy Molding.
Also known as: LNP* LUBRICOMP* Compound OCL-4534 EM
Product reorder name: OCP34E

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE silicone lubricant		
Features	Good formability		
	Lubrication		
	Linear polymer structure		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10	%	ASTM D955
Transverse flow: 24 hours	0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.39	%	ISO 294-4
Flow direction: 24 hours	0.080	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19000	MPa	ASTM D638
--	16600	MPa	ISO 527-2/1
Tensile Strength			
Fracture	164	MPa	ASTM D638
Fracture	159	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.6	%	ASTM D638
Fracture	1.3	%	ISO 527-2
Flexural Modulus			
--	15000	MPa	ASTM D790
--	15300	MPa	ISO 178
Flexural Strength			

--	232	MPa	ASTM D790
--	236	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	390	J/m	ASTM D4812
23°C ³	28	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.90	J	ASTM D3763
--	2.44	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	265	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	260	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 - 316	°C	
Middle Temperature	321 - 332	°C	
Front Temperature	332 - 343	°C	
Processing (Melt) Temp	316 - 321	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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