

LNP™ LUBRICOMP™ MAP41XXP compound

Polypropylene

SABIC Innovative Plastics Europe

Message:

LNP* LUBRICOMP* MAP41XXP is a compound based on Polypropylene resin containing Aramid, PTFE and Silicone. Added Features include: Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound MAL-4541 HP

Product reorder name: MAP41XXP

General Information			
Filler / Reinforcement	Aramid Fiber		
Additive	PTFE + Silicone Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.5 to 2.0	%	Internal Method
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	25.0	MPa	
Break	18.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	5.9	%	
Break	56	%	
Flexural Modulus ¹	1400	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	32.0	MPa	
-- ⁴	37.0	MPa	
Coefficient of Friction (vs. Itself - Dynamic)	0.33		ASTM D3702 Modified
Wear Factor - Washer	4.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed, 64.0 mm Span	100	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	64.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2

Flow : 23 to 60°C	1.6E-4	cm/cm/°C
Transverse : 23 to 60°C	1.3E-4	cm/cm/°C
Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Rear Temperature	193 to 204	°C
Middle Temperature	199 to 210	°C
Front Temperature	204 to 216	°C
Processing (Melt) Temp	216 to 221	°C
Mold Temperature	32.2 to 48.9	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm
NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	
3.	Yield	
4.	Break	
5.	80*10*4	
6.	80*10*4	
7.	80*10*4 mm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

