

LNP™ LUBRICOMP™ COMPOUND MAP41XXP

MAL-4541 HP
REGION EUROPE

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	25	MPa	ISO 527
Tensile Stress, break, 50 mm/min	18	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	5.9	%	ISO 527
Tensile Strain, break, 50 mm/min	56	%	ISO 527
Tensile Modulus, 1 mm/min	1400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	32	MPa	ISO 178
Flexural Stress, break, 2 mm/min	37	MPa	ISO 178
Flexural Modulus, 2 mm/min	1400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.6E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.3E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	100	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	64	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow (5)	1.5 – 2	%	SABIC method
Wear Factor Washer	4	10 ⁻⁴ in ³ /5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.33	-	ASTM D 3702 Modified: Instr.
Static COF	0.61	-	ASTM D 3702 Modified: Instr.
Density	1.02	g/cm ³	ISO 1183
Water Absorption, 23°C/24hrs	0.02	%	ISO 62-1

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	215 – 220	°C	
Front - Zone 3 Temperature	205 – 215	°C	
Middle - Zone 2 Temperature	200 – 210	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	30 – 50	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.