



LNP™ LUBRICOMP™ Compound MAP41XXP

Europe-Africa-Middle East: COMMERCIAL

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

Product reorder name: MAP41XXP

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
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 ⁻¹⁰ in 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





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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

