

LNPT[™] LUBRICOMP[™] COMPOUND WFP36

WFL-4536

REGION EUROPE

DESCRIPTION

LNP LUBRICOMP WFP36 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber, 15% PTFE/silicone. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION

Features	Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE/Silicone
Polymer Types	Polybutylene Terephthalate (PBT)
Processing Techniques	Injection Molding

INDUSTRY

Building and Construction
Consumer
Electrical and Electronics
Industrial

SUB INDUSTRY

Building Component
Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Mobile Phone - Computer - Tablets
Electrical

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break, 5 mm/min	101	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	10000	MPa	ISO 527
IMPACT ⁽¹⁾			
Izod Impact, unnotched 80°10°4 +23°C	35	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm	221	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm	208	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Mold Shrinkage on Tensile Bar, flow ⁽²⁾	0.2 – 0.4	%	SABIC method
Wear Factor Washer	136	10 ⁻⁸ in ³ /min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.5	-	ASTM D3702 Modified: Manual
Static COF	0.42	-	ASTM D3702 Modified: Manual
Density	1.57	g/cm ³	ISO 1183

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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CHEMISTRY THAT MATTERS[™]



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