

LNPT[™] LUBRILOY[™] COMPOUND WF206

DESCRIPTION

LNPT[™] LUBRILOY[™] Compound WF206 compound is a PBT based, internally lubricated injection molding grade. This compound offers improved wear and friction performance without the use of intentionally added PFAS materials.

GENERAL INFORMATION	
Additives	Proprietary Lubricant
Applications	Amusement Machine, ATM/Ticket Machine, Commercial Appliance, Conveyor, Document Handling, Doors Hardware/Trim, Gear/Bearing/Slider, Vending Machine, Automotive , Under the hood, printer, copier
Features	Wear resistant
Fillers	Glass Fiber, Proprietary Filler
Polymer Types	Polybutylene Terephthalate (PBT)
Processing Techniques	Injection Molding, Extrusion

INDUSTRY	SUB INDUSTRY
Consumer	Consumer Goods, Sport/Leisure, Home Appliances, Commercial Appliance, Furniture
Electrical and Electronics	Electronic Components, Printer Copier
Industrial	Industrial General

TYPICAL PROPERTY VALUES

Revision 20260615

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Modulus, 1 mm/min	8790	MPa	ISO 527
Flexural Modulus, 1.3 mm/min, 50 mm span	7633	MPa	ASTM D790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	171	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	171	MPa	ASTM D790
Tensile Stress, break, 5 mm/min	112	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.1	%	ISO 527
Tensile Modulus, 5 mm/min	7853	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.2	%	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	111	MPa	ASTM D638
IMPACT ⁽¹⁾			
Izod Impact, notched 80*10*4 +23°C	8.7	kJ/m ²	ISO 180/1A
Izod Impact, notched, 23°C	89	J/m	ASTM D256
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m ²	ISO 180/1U
Izod Impact, unnotched, 23°C	818	J/m	ASTM D4812
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	206	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Moisture Absorption (23°C / 50% RH)	0.019	%	ISO 62
Mold Shrinkage, flow ⁽²⁾	0.28	%	SABIC method

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow ⁽²⁾	1.44	%	SABIC method
Specific Gravity	1.45	-	ASTM D792
Wear Factor Washer	124	10 ⁻¹⁰ in ⁴ 5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.51	-	ASTM D3702 Modified: Manual
Static COF	0.69	-	ASTM D3702 Modified: Manual
Melt Volume Rate, MVR at 250°C/5 kg	17.3	cm ³ /10 min	ASTM D1238
INJECTION MOLDING ⁽³⁾			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	240 – 265	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (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.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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