

LNP* Lubricomp* Compound WAL34 Americas: COMMERCIAL

Also known as: WAL-4034 Product Reorder Name: WAL34

LNP* Lubricomp* WAL34 is a compound based on Polybutylene Terephalate resin containing PTFE, Aramid Fiber. Added features of this material include: Internally Lubricated.

Property

TYPICAL PROPERTIES (1)						
MECHANICAL	Value	Unit	Standard			
Tensile Stress, break	57	MPa	ASTM D 638			
Tensile Stress, yld, Type I, 5 mm/min	46	MPa	ASTM D 638			
Tensile Stress, brk, Type I, 5 mm/min	46	MPa	ASTM D 638			
Tensile Strain, break	2.9	%	ASTM D 638			
Tensile Strain, yld, Type I, 5 mm/min	1.5	%	ASTM D 638			
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638			
Tensile Modulus, 50 mm/min	5480	MPa	ASTM D 638			
Flexural Stress	103	MPa	ASTM D 790			
Flexural Stress, yld, 1.3 mm/min, 50 mm span	78	MPa	ASTM D 790			
Flexural Stress, brk, 1.3 mm/min, 50 mm span	78	MPa	ASTM D 790			
Flexural Modulus	4390	MPa	ASTM D 790			
Flexural Modulus, 1.3 mm/min, 50 mm span	4390	MPa	ASTM D 790			
Tensile Stress, yield, 5 mm/min	44	MPa	ISO 527			
Tensile Stress, break, 5 mm/min	44	MPa	ISO 527			
Tensile Strain, yield, 5 mm/min	1.3	%	ISO 527			
Tensile Strain, break, 5 mm/min	1.3	%	ISO 527			
Tensile Modulus, 1 mm/min	4520	MPa	ISO 527			
Flexural Stress	78	MPa	ISO 178			
Flexural Modulus, 2 mm/min	4100	MPa	ISO 178			
ІМРАСТ	Value	Unit	Standard			
Izod Impact, unnotched, 23°C	131	J/m	ASTM D 4812			
Izod Impact, notched, 23°C	32	J/m	ASTM D 256			
Multiaxial Impact	0	J	ISO 6603			
Instrumented Impact Total Energy, 23°C	3	J	ASTM D 3763			

9	kJ/m²	ISO 180/1U
3	kJ/m²	ISO 180/1A
Value	Unit	Standard
182	°C	ASTM D 648
215	°C	ASTM D 648
5.1E-05	1/°C	ASTM D 696
8.4E-05	1/°C	ASTM D 696
206	°C	ISO 75/Bf
130	°C	ISO 75/Af
Value	Unit	Standard
1.43	-	ASTM D 792
1.42	g/cm³	ASTM D 792
0.09	%	ASTM D 570
1.3	%	ASTM D 955
2.2	%	ASTM D 955
6	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
0.24	-	ASTM D 3702 Modified
0.21	-	ASTM D 3702 Modified
0.09	%	ISO 62
	3 Value 182 215 5.1E-05 8.4E-05 206 130 Value 1.43 1.42 0.09 1.3 2.2 6 0.24 0.21	3 kJ/m² Value Unit 182 °C 215 °C 5.1E-05 1/°C 8.4E-05 1/°C 206 °C 130 °C Value Unit 1.42 g/cm³ 0.09 % 1.3 % 2.2 % 6 10^-10 in^5-min/ft-lb-hr 0.24 - 0.21 -

Source GMD, last updated:05/23/2006

Processing

Parameter					
Injection Molding	Value	Unit			
Drying Temperature	120	°C			
Drying Time	4	hrs			
Maximum Moisture Content	0.05	%			
Melt Temperature	240 - 265	°C			
Front - Zone 3 Temperature	260 - 270	°C			
Middle - Zone 2 Temperature	245 - 255	°C			
Rear - Zone 1 Temperature	220 - 230	°C			
Mold Temperature	80 - 100	°C			
Back Pressure	0.2 - 0.3	MPa			
Screw Speed	30 - 60	rpm			

Source GMD, last updated:05/23/2006

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt

volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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