

LNPT[™] STAT-KON[™] Compound MJF40

REGION EUROPE

DESCRIPTION

LNP STAT-KON MJF40 compound is based on Polypropylene (PP) resin containing 20% glass fibers and proprietary fillers. Added features for this grade include: Electrically Conductive, Radar Absorbing, Stiffness and good processability.

GENERAL INFORMATION	
Features	Chemical Resistance, Electrically Conductive, Good Processability, Good Stiffness, Radar Absorption, No PFAS intentionally added
Fillers	Proprietary Filler, Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

TYPICAL PROPERTY VALUES

Revision 20260326

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Modulus, 1 mm/min	5160	MPa	ISO 527
Tensile Stress, break, 5 mm/min	66	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Flexural Modulus, 2 mm/min	4440	MPa	ISO 178
Flexural Strength, 2 mm/min	97	MPa	ISO 178
Tensile Modulus, 5 mm/min	5180	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	70	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	4280	MPa	ASTM D790
Flexural Strength, 1.3 mm/min, 50 mm span	100	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, notched 80*10*4 +23°C	7.5	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	5.5	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	20	kJ/m ²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	7	kJ/m ²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	6.5	kJ/m ²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	25	kJ/m ²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	15	kJ/m ²	ISO 179/1eU
Multi-Axial Instrumented Impact Total Energy, 23°C	4	J	ISO 6603-2
Multi-Axial Instrumented Impact Energy @ peak, 23°C	3.4	J	ISO 6603-2
Multi-Axial Instrumented Impact Total Energy, -30°C	4	J	ISO 6603-2
Multi-Axial Instrumented Impact Energy @ peak, -30°C	3.1	J	ISO 6603-2
Izod Impact, notched, 23°C	50	J/m	ASTM D256
Izod Impact, notched, -30°C	49	J/m	ASTM D256
Izod Impact, unnotched, 23°C	360	J/m	ASTM D4812
Izod Impact, unnotched, -30°C	295	J/m	ASTM D4812

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	143	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	160	°C	ISO 75/Bf
Vicat Softening Temp, Rate B/50	132	°C	ISO 306
Vicat Softening Temp, Rate B/120	135	°C	ISO 306
CTE			
23°C to 80°C, flow ⁽²⁾	3.1E-05	1/°C	ISO 11359-2
23°C to 80°C, xflow ⁽²⁾	1.5E-04	1/°C	ISO 11359-2
23°C to 80°C, flow ⁽²⁾	3.1E-05	1/°C	ASTM E831
23°C to 80°C, xflow ⁽²⁾	1.5E-04	1/°C	ASTM E831
HDT, 1.82 MPa, 3.2mm, unannealed	149	°C	ASTM D648
HDT, 0.45 MPa, 3.2 mm, unannealed	160	°C	ASTM D648
Vicat Softening Temp, Rate B/50	132	°C	ASTM D1525
Vicat Softening Temp, Rate B/120	135	°C	ASTM D1525
PHYSICAL ⁽¹⁾			
Density	1.1	g/cm³	ISO 1183
Melt Volume Rate			
230°C/5.0 kg	16	cm³/10 min	ISO 1133
Moisture Absorption, (23°C/50% RH/24hrs)	0.0	%	ISO 62-4
Moisture Absorption, (23°C/50% RH/Equilibrium)	0.01	%	ISO 62-4
Water Absorption, (23°C/24hrs)	0.01	%	ISO 62-1
Water Absorption, (23°C/saturated)	0.04	%	ISO 62-1
Specific Gravity	1.1	-	ASTM D792
Melt Flow Rate, 230°C/5 kgf	13	g/10 min	ASTM D1238
Water Absorption, (23°C/24hrs)	0.01	%	ASTM D570
Water Absorption, (23°C/Saturated)	0.04	%	ASTM D570
Mold Shrinkage, flow ⁽²⁾	0.4 – 0.7	%	SABIC method
Mold Shrinkage, xflow ⁽²⁾	0.5 – 0.8	%	SABIC method
ELECTRICAL ⁽¹⁾			
Surface Resistivity	1E+04 – 1E+08	Ω	ASTM D4496
Surface Resistivity	1E+04 – 1E+08	Ω	ANSI/ESD STM11.11
Dissipation Factor			
77 GHz	0.36	-	SABIC method
Dielectric Constant			
77 GHz	6.9	-	SABIC method
INJECTION MOLDING ⁽³⁾			
Drying Temperature	80	°C	
Drying Time	2 – 4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Melt Temperature	230 – 250	°C	
Rear - Zone 1 Temperature	190 – 230	°C	
Middle - Zone 2 Temperature	200 – 240	°C	
Front - Zone 3 Temperature	230 – 250	°C	
Nozzle Temperature	230 – 250	°C	
Mold Temperature	30 – 60	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Back Pressure	0.2 – 0.3	MPa	
Screw speed (Circumferential speed)	0.15 – 0.25	m/s	

- (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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