

Product Texts

LNP ELCRIN WF006NAiQ is an iQ PBT based compound containing 30% glass for NMT application. Added features of this material include: >25% PCR, high metal bonding strength, and good chemical resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm ³ /10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	24	g/10min	ASTM D 1238
Temperature	275	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8700	MPa	ISO 527
Stress at break	111	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	7400	MPa	ISO 178
Flexural strength	173	MPa	ISO 178
Izod impact strength, +23°C, 4mm	51	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14.5	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8800	MPa	ASTM D 638
Tensile Strength at Break	113	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	7770	MPa	ASTM D 790
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	110	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	910	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	165	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	201	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
DTUL @ 66 psi	206	°C	ASTM D 648
DTUL @ 264 psi	172	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	100 - 160	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	240 - 260	°C	-
Zone 2	250 - 270	°C	-
Zone 3	250 - 270	°C	-

Characteristics

Processing

Injection Molding

Certifications

Recycled Resin Content

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe, Asia Pacific