

Product Texts

LNP THERMOTUF RBX7245 compound is based on Polycarbonate (PC) resin. Added features of this grade include: Non-Brominated & Non-Chlorinated Flame Retardant with excellent V-0 rating at 0.6mm, Post-Consumer Recycling (PCR) Polycarbonate content up to 50%.

UL Yellow Card Link [E207780-103823841](https://www.ul.com/yellowcard/E207780-103823841)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	29	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	63	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	44	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2500	MPa	ISO 178
Charpy notched impact strength, +23°C	51	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	2500	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	75	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	700	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	91	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	110	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	116	°C	ISO 306
Coeff. of linear therm. expansion -40°C to +100°C, parallel	6.3E-5	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion -40°C to +100°C, normal	7.1E-5	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.2	mm	-
ASTM Data			
DTUL @ 66 psi	101	°C	ASTM D 648
DTUL @ 264 psi	92	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.1	%	Sim. to ISO 62
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-

Melt temperature	250 - 300	°C	-
Mold temperature	60 - 85	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	230 - 280	°C	-
Zone 2	240 - 290	°C	-
Zone 3	250 - 300	°C	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Certifications

Recycled Resin Content

Regional Availability

North America, Europe, Asia Pacific