

Product Texts

NORYL™ FNH2160 resin is a foamable blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS) and offers 20% weight reduction at 6.35mm (0.250”) wall. This material contains non-brominated, non-chlorinated flame retardant with a UL94 flame rating of 5VA at 3.9 mm and V1 at 3mm. NORYL FNH2160 resin offers fast cycle time, improved processing, and exhibits good dimensional stability and low moisture absorption. The unique combination of properties in this structural foam material allows for designing optimum wall thickness in computer and business machine applications, electrical enclosures/housings, medical equipment, and hospital bed rails and components.

UL Yellow Card Link [E121562-101920328](https://www.ul.com/yellowcard/E121562-101920328)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	36	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2680	MPa	ASTM D 638
Tensile Strength at Yield	36	MPa	ASTM D 638
Tensile Strength at Break	34	MPa	ASTM D 638
Elongation at Yield	3.04	%	ASTM D 638
Elongation at Break	12	%	ASTM D 638
Izod Impact unnotched, 1/4 in	362	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.9	mm	-

Other properties	Value	Unit	Test Standard
Density	1120	kg/m ³	ASTM D 792

Characteristics

Additives

Flame retarding agent

Regional Availability

North America

Special Characteristics

Flame retardant