

NORYL™ RESIN FN150X

REGION AMERICAS

DESCRIPTION

Improved reliability and productivity. Thin wall capability. UL94 V-0/5VA rated. All data at 20% weight reduction and 0.250" wall.

TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
FOAM - MECHANICAL 6.4 mm Wt Reduction	20	%	-
Tensile Stress, yield, 6.35 mm	28	MPa	ASTM D 638
Tensile Stress, break, 6.35 mm	28	MPa	ASTM D 638
Tensile Strain, yield, 6.35 mm	7.3	%	ASTM D 638
Tensile Strain, break, 6.35 mm	14	%	ASTM D 638
Flexural Stress, yield, 6.4 mm	52	MPa	ASTM D 790
Flexural Modulus, 6.4 mm	1740	MPa	ASTM D 790
Hardness, Rockwell R	121	-	ASTM D 785
Taber Abrasion, CS-17, 1 kg	152	mg/1000cy	ASTM D 1044
IMPACT			
FOAM - IMPACT 6.4 mm Wt Reduction	20	%	-
Izod Impact, unnotched, 23°C, 6.4mm	341	J/m	ASTM D 4812
THERMAL			
FOAM - THERMAL 6.4mm Wt Reduction	20	%	-
Vicat Softening Temp, Rate B/50	110	°C	ASTM D 1525
HDT, 0.45 MPa, 6.4 mm, unannealed	89	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	73	°C	ASTM D 648
Relative Temp Index, Elec	50	°C	UL 746B
Relative Temp Index, Mech w/impact	50	°C	UL 746B
Relative Temp Index, Mech w/o impact	50	°C	UL 746B
PHYSICAL			
FOAM - PHYSICAL 6.4mm Wt Reduction	20	%	-
Specific Gravity	1.12	-	ASTM D 792
Water Absorption, 24 hours	0.06	%	ASTM D 570
Mold Shrinkage, flow, 6.4 mm	0.6 – 0.8	%	SABIC method
Mold Shrinkage, xflow, 6.4 mm	0.6 – 0.8	%	SABIC method
FLAME CHARACTERISTICS			
FOAM - Flame Class Minimum Density	0.9	g/cm ³	-
UL Recognized, 94V-0 Flame Class Rating	3.98	mm	UL 94
UL Recognized, 94-5VA Rating	3.98	mm	UL 94
Radiant Panel Listing	<input checked="" type="checkbox"/>	-	UL Tested
STRUCTURAL FOAM MOLDING			
Blowing Agent, Physical System	Nitrogen Gas	-	
Concentration Range (Blowing Agent)	1 – 3	%	
Recommended Concentration (Blowing Agent)	2	%	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature (Resin)	70 – 80	°C	
Drying Time (Resin)	2 – 4	hrs	
Drying Time (Resin, Cumulative)	8	hrs	
Melt Temperature	270 – 310	°C	
Nozzle Temperature	270 – 305	°C	
Front Temperature	270 – 305	°C	
Middle Temperature	270 – 305	°C	
Rear Temperature	230 – 260	°C	
Mold Temperature	25 – 55	°C	

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.