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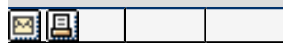
Tuesday, April 26, 2005

ZYNTAR[®] 702

NOVA Chemicals - Polystyrene, Ignition Resistant

Unit System:

Actions Legend ([Open](#))



General Information

General	Å
Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Test Standards Available	<ul style="list-style-type: none"> ASTM
Additive	<ul style="list-style-type: none"> Ignition Resistant
Features	<ul style="list-style-type: none"> Ignition Resistant Impact Resistance, Good
Agency Ratings	<ul style="list-style-type: none"> CSA^Å C-22.2 0.6 (HB)^Å CSA^Å C-22.2 0.6 (V-0)^Å
Appearance	<ul style="list-style-type: none"> Colors Available Natural Color
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Compression Molding Injection Molding

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Properties^{Å 1}

Physical	Nominal Value	Unit	Test Method
Density - Specific Gravity	1.17	sp gr 23/23 ^Å C	ASTM D792
Melt Mass-Flow Rate (MFR) (200 ^Å C/5.0 kg)	7.50	g/10 min	ASTM D1238
Mold Shrink, Linear-Flow (0.125 in)	0.0040 to 0.0060	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength @ Yield ^{Å 2}	3200	psi	ASTM D638
Tensile Elongation @ Brk ^{Å 2}	30	%	ASTM D638
Flexural Modulus ^{Å 3}	280000	psi	ASTM D790
Flexural Strength @ Break ^{Å 3}	4200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.70	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
DTUL @264psi - Unannealed (0.125 in)	178	^Å F	ASTM D648
Vicat Softening Point (Rate B)	203	^Å F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (0.0620 in)	V-0	^Å	UL 94
UL 746	Nominal Value	Unit	Test Method
Rel Temp Indx Mech w/Imp (0.0620 in)	122	^Å F	UL 746
Rel Temp Indx Mech w/Imp (0.0620 in)	122	^Å F	UL 746

Rel Temp Indx Elect (0.0620 in)

122 Å°F

UL 746

Additional Properties

Color Stability, ASTM D4459, delta E @ 300 hrs: >10

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	155	Å°F
Drying Time	2.0	hr
Suggested Max Regrind	25	%
Rear Temperature	360 to 400	Å°F
Middle Temperature	400 to 440	Å°F
Front Temperature	420 to 460	Å°F
Nozzle Temperature	430	Å°F
Processing (Melt) Temp	430 to 470	Å°F
Mold Temperature	90.0 to 130	Å°F
Injection Pressure	9000 to 11000	psi
Injection Rate	Slow-Moderate	Å
Holding Pressure	5000 to 7000	psi
Back Pressure	50.0	psi
Screw Speed	60	rpm
Screw L/D Ratio	20.0:1.0	Å
Screw Compression Ratio	2.0:1.0 to 2.5:1.0	Å

Injection Notes

Cushion: 0.125 in

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Notes

- 1 Typical properties: these are not to be construed as specifications.
- 2 2 in/min, 0.125 in
- 3 0.1 in/min, 0.125 in

Å Å

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