

Technical Data Sheet

Ronfalin ASA 3421 U NAT



Acrylonitrile Styrene Acrylate

Product Description

Impact modified ASA with increased heat resistance and very good UV stability. (Former name: POLYMAN ASA E/MI 1010 H UV+)

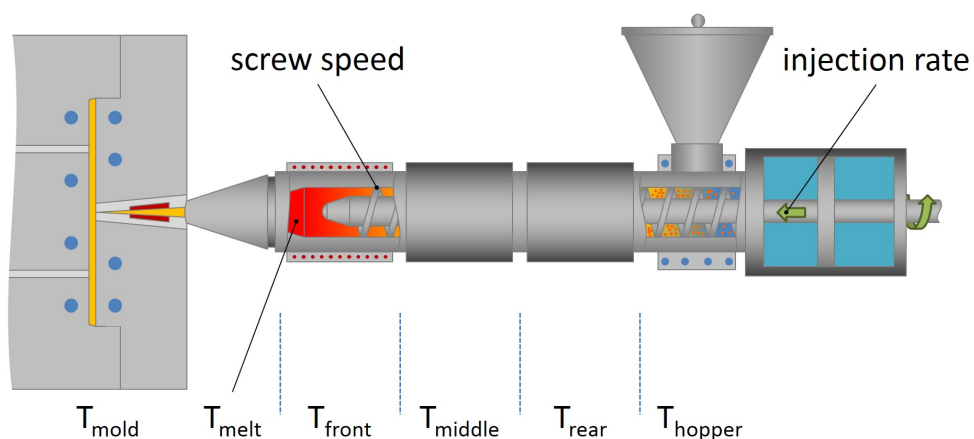
Regulatory Status

For regulatory compliance information, see *Ronfalin* ASA 3421 U NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America
Processing Method	Extrusion; Injection Molding
Attribute	Good Flow; UV Stabilized

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	7.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.06	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	50.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	5.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2600	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.6	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	45.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2400	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 4.8%)	80.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	2.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	60	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	26	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	96.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	102	°C	ISO 306
(A (10N), 50 °C/h)	118	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	103	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	88.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1

Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Ignition Temperature			
(1.5 mm)	700	°C	IEC 60695-2-13
(3.0 mm)	700	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	40 to 80	°C

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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