

Technical Data Sheet

Ronfalin ASA 3511 U GRY60635



Acrylonitrile Styrene Acrylate

Product Description

Impact and outdoor resistant ASA with increased heat resistance for extrusion and injection moulding.
(POLYMAN ASA E/MI 0515 H UV)

Regulatory Status

For regulatory compliance information, see *Ronfalin ASA 3511 U GRY60635* [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 Impact Resistance; High Heat Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	5.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.07	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	48.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2300	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	11	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
Notched Izod Impact (Area), (23 °C)	13.0	kJ/m ²	ASTM D256
Hardness			
Ball Indentation Hardness, (H 358/30)	96.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	103	°C	ISO 306
(A (10N), 120 °C/h)	117	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	104	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	84.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	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

Additional Information

Water Absorption 23C/50RH

1.2 %

ISO 62

UL Information

Flammability Classification

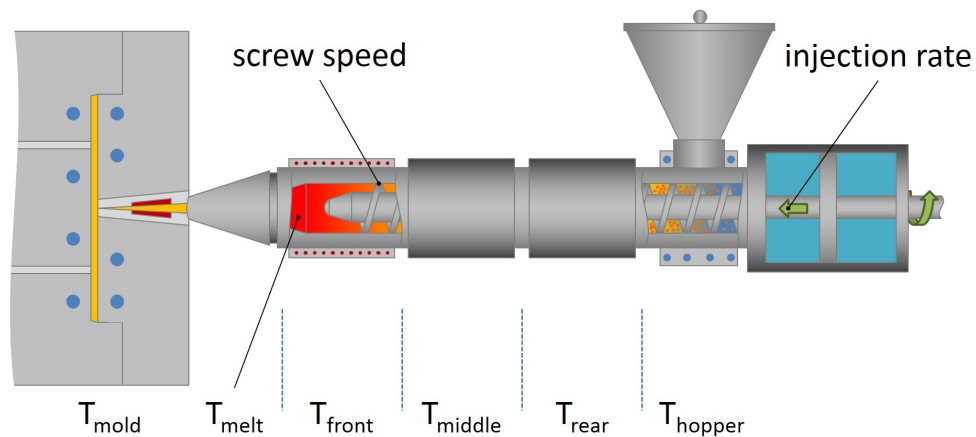
(1.5 mm)

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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