

Technical Data Sheet

RW *Schulamid* 612 GF33 H2 BLACK



Polyamide 612

Product Description

33% glass fiber reinforced, Polyamide 612 Compound, with electrical neutral heat stabilization and high strength after conditioning

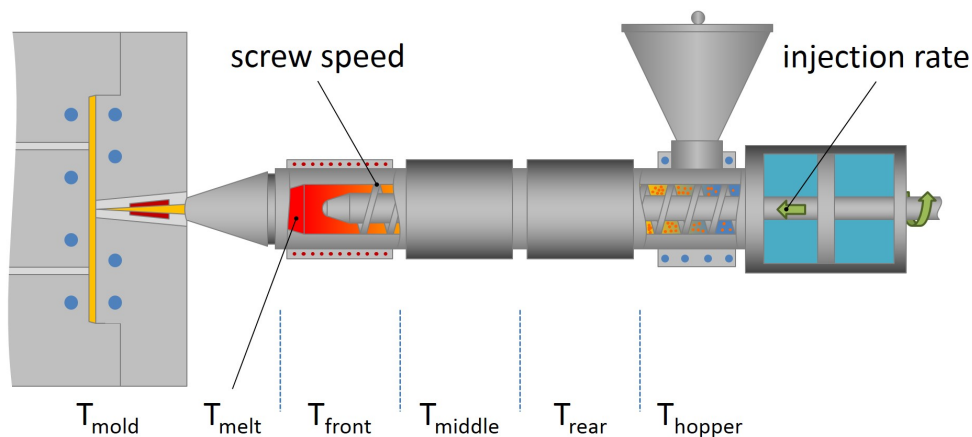
Regulatory Status

For regulatory compliance information, see RW *Schulamid* 612 GF33 H2 BLACK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Good Chemical Resistance; Good Heat Aging Resistance; Halogen Free
Filler/Reinforcement	Glass Fiber, 33%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (245 °C/5.0 kg)	32	cm ³ /10 min	ISO 1133
Density, (Method A)	1.32	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.2	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	4.4	%	ISO 527-2
Flexural Modulus, (23 °C, 2.0 mm/min)	9000	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	175	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	135	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	10000	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	8000	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	250	MPa	ISO 178
(2.0 mm/min, 3.7%)	250	MPa	ISO 178
(23 °C, 2.0 mm/min, 3.7%)	255	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	15	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	15	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	90	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	85	kJ/m ²	ISO 179
Thermal			

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	214	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	195	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	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	0.9	%	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	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	240 to 280	°C
Mold Temperature	50 to 90	°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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