TECHNYL® A R 218 V33 BLACK 34 N

Polyamide 66

Solvay Engineering Plastics

Message:

Preliminary data sheet - Provisional technical data

Polyamide 66, reinforced with 33% of glass fibre, containing recycled material, for injection moulding, specially stabilized to improve its resistance to automotive cooling liquids.

Recycled Content Yes Features Glycol Resistant Good Chemical Resistance Uses Automotive Applications Automotive Under the Hood Appearance Black Processing Method Injection Molding Part Marking Code (ISO 11469) > PA66-GF33 Mechanical Nominal Value Unit Test Method Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Stress (Break) 2.8 % ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 1527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Stress 2.8 % ISO 178 Impact Nominal Value Unit Test Method Charpy Unnotched Impact Strength 7.8 KJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 KJ/m² ISO 180/1A Thermal Nominal Value Unit<	General Information			
Eastures Glycol Resistant Good Chemical Resistance Good Chemical Re	Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Good Chemical Resistance Good Chemical Chemi	Recycled Content	Yes		
Automotive Applications Automotive Under the Hood Au	Features	Glycol Resistant		
Appearance Black Processing Method Injection Molding Part Marking Code (ISO 11469) > PA66-GF33 < Mechanical Nominal Value Unit Test Method Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Stress (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Modulus 9020 MPa ISO 178 Flexural Stress 1258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C		Good Chemical Resistance		
Appearance Black Processing Method Injection Molding Part Marking Code (ISO 11469) > PA66-GF33 < Mechanical Nominal Value Unit Test Method Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Stress (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Modulus 9020 MPa ISO 178 Flexural Stress 1258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C				
Appearance Black Processing Method Injection Molding Part Marking Code (ISO 11469) > PA66-GF33 < Mechanical Nominal Value Unit Test Method Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Stress (Break) 2.8 % ISO 527-2/1A Tensile Strain (Break) 9020 MPa ISO 178 Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C Front Temperature 280 to 290 °C	Uses	Automotive Applications		
Part Marking Code (ISO 11469) Part Method Part ISO 527-2/1A Part I		Automotive Under the Hood		
Part Marking Code (ISO 11469) >PA66-GF33 Mechanical Nominal Value Unit Test Method Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Strain (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C	Appearance	Black		
Mechanical Nominal Value Unit Test Method Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Strain (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Unit Drying Temperature 80.0 °C ISO 11357-3 Suggested Max Moisture 0.20 % Suggested Max Moisture 260 to 270 °C Widdle Temperature 26	Processing Method	Injection Molding		
Tensile Modulus 10100 MPa ISO 527-2/1A Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Strain (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 KJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 KJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 KJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 280 to 290 °C	Part Marking Code (ISO 11469)	>PA66-GF33<		
Tensile Stress (Break) 170 MPa ISO 527-2/1A Tensile Strain (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Mechanical	Nominal Value	Unit	Test Method
Tensile Strain (Break) 2.8 % ISO 527-2/1A Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C Image: Company of the proper stream of the proper st	Tensile Modulus	10100	MPa	ISO 527-2/1A
Flexural Modulus 9020 MPa ISO 178 Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Tensile Stress (Break)	170	МРа	ISO 527-2/1A
Flexural Stress 258 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 8.00 °C Rear Temperature 260 to 270 °C Middle Temperature 260 to 280 °C Middle Temperature 260 to 280 °C Middle Temperature 260 to 280 °C Middle Temperature 280 to 290 °C	Tensile Strain (Break)	2.8	%	ISO 527-2/1A
Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 80.0 °C Suggested Max Moisture 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Flexural Modulus	9020	MPa	ISO 178
Charpy Notched Impact Strength 7.8 kJ/m² ISO 179/1eA Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Flexural Stress	258	MPa	ISO 178
Charpy Unnotched Impact Strength 49 kJ/m² ISO 179/1eU Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength 8.2 kJ/m² ISO 180/1A Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Charpy Notched Impact Strength	7.8	kJ/m²	ISO 179/1eA
Thermal Nominal Value Unit Test Method Melting Temperature 260 °C ISO 11357-3 Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Charpy Unnotched Impact Strength	49	kJ/m²	ISO 179/1eU
Melting Temperature260°CISO 11357-3InjectionNominal ValueUnitDrying Temperature80.0°CSuggested Max Moisture0.20%Rear Temperature260 to 270°CMiddle Temperature270 to 280°CFront Temperature280 to 290°C	Notched Izod Impact Strength	8.2	kJ/m²	ISO 180/1A
Injection Nominal Value Unit Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Thermal	Nominal Value	Unit	Test Method
Drying Temperature 80.0 °C Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Melting Temperature	260	°C	ISO 11357-3
Suggested Max Moisture 0.20 % Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Injection	Nominal Value	Unit	
Rear Temperature 260 to 270 °C Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Drying Temperature	80.0	°C	
Middle Temperature 270 to 280 °C Front Temperature 280 to 290 °C	Suggested Max Moisture	0.20	%	
Front Temperature 280 to 290 °C	Rear Temperature	260 to 270	°C	
·	Middle Temperature	270 to 280	°C	
Mold Temperature 80.0 to 100 °C	Front Temperature	280 to 290	°C	
	Mold Temperature	80.0 to 100	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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