Ultramid® A3WG7 CR BK564

Polyamide 66

BASF Corporation

Message:

Glass fibre reinforced and heat aging resistance injection moulding grade for industrial items such as gear wheels, solenoid valve housings, cable attachments, automotive fuel distributors and components for automotive gearshift.

General Information	
Filler / Reinforcement	Glass Fiber,35% Filler by Weight
Features	Good Heat Aging Resistance Oil Resistant
Uses	Automotive Applications Gears Housings Industrial Applications Valves/Valve Parts
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm³	ISO 1183
Apparent Density	0.70	--	g/cm³	
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	22.0	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 23°C)	5.0 to 5.5	--	%	ISO 62
Mold Shrinkage - constrained [1]	0.40 to 0.45	--	%	
Polymer Abbreviation	PA66-GF35	--		

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11400	7600	MPa	ISO 527-2
Tensile Stress (Break)	200	130	MPa	ISO 527-2
Tensile Strain (Break)	3.1	4.4	%	ISO 527-2
Flexural Modulus	10800	7200	MPa	ISO 178
Flexural Stress	300	200	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	8.0	kJ/m²	
23°C	10	14	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	63	kJ/m²	
23°C	85	88	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Injection	Dry	Unit		
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				
1.	Test box with central gating, dimensions of base (107*47*1,5) mm, processing conditions: TM = 290°C, TW = 80°C			

Recommended distributors for this material

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