

VYTEEN PC/ABS 3016

Polycarbonate + ABS

Lavergne Group

Message:

Vyteen PC/ABS 3016 is a black 16% glass fiber reinforced Polycarbonate/ABS alloy designed for injection molding

Features

Good processability

Balanced stiffness / resilience

High Deflection Temperature

Daimler Chrysler MSDB-206 type II compliant

Typical Applications

Automotive

Structural frames

Appliances

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 16% filler by weight		
Features	Rigid, good		
	Workability, good		
	Elastic		
Uses	Components		
	Home appliance components		
	Application in Automobile Field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.22	g/cm ³	ASTM D792
23°C	1.20	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 2.00mm	4.9 - 6.5	%	ASTM D955
3.20 mm	0.30 - 0.50	%	ISO 294-4
Ash Content			
--	16	%	ISO 3451
--	16	%	ASTM D2854
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	80.0	MPa	ASTM D638
Fracture	75.0	MPa	ISO 527-2/5
Flexural Modulus			
-- ²	5300	MPa	ASTM D790

-- ³	5250	MPa	ISO 178
Flexural Strength			
-- ⁴	140	MPa	ASTM D790
-- ⁵	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/A
-30°C	6.0	kJ/m ²	ISO 179/A
23°C	8.0	kJ/m ²	ISO 179/A
Notched Izod Impact			ASTM D256
-29°C	85	J/m	ASTM D256
23°C	93	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	112	°C	ASTM D648, ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Burning Rate	100	mm/min	SAE J369
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	200 - 230	°C	
Middle Temperature	240 - 250	°C	
Front Temperature	260 - 275	°C	
Nozzle Temperature	270 - 280	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Injection Pressure: MediumBack Pressure: LowScrew Speed: Low			
NOTE			
1.	5.0 mm/min		
2.	1.3 mm/min		
3.	2.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		

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