

SABIC® PPcompound G3240U

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND G3240U is a general purpose, 40% glass filled, chemically coupled, heat stabilized and UV stabilized homopolymer polypropylene compound. The IMDS ID is 209768078.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	Homopolymer		
Uses	General Purpose		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 23°C, 48 hr	0.80	%	
Flow : 23°C, 48 hr	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7610	MPa	ASTM D638
--	8900	MPa	ISO 527-2/1
Tensile Strength			
Break ²	120	MPa	ASTM D638
Break	111	MPa	ISO 527-2/1A/50
Tensile Elongation			
Break ³	2.4	%	ASTM D638
Break	2.9	%	ISO 527-2/50
Flexural Modulus			
64.0 mm Span ⁴	8900	MPa	ISO 178
50.0 mm Span ⁵	7810	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ⁶	13	kJ/m ²	

23°C ⁷	10	kJ/m ²	
Notched Izod Impact			
23°C, 3.20 mm ⁸	98	J/m	ASTM D256
-30°C ⁹	11	kJ/m ²	ISO 180/1A
23°C ¹⁰	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹¹ (23°C, 3.20 mm)	610	J/m	ASTM D4812
Instrumented Dart Impact ¹² (23°C, Energy at Peak Load)	4.34	J	ASTM D3763
Gardner Impact ¹³ (23°C)	0.380	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	161	°C	ASTM D648
0.45 MPa, Unannealed ¹⁴	161	°C	ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	153	°C	ASTM D648
1.8 MPa, Unannealed ¹⁵	153	°C	ISO 75-2/A
Vicat Softening Temperature	164	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow : -30 to 100°C	16.7	µm/Mk	
Transverse : -30 to 100°C	155	µm/Mk	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	190 to 230	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	210 to 270	°C	
Nozzle Temperature	210 to 270	°C	
Processing (Melt) Temp	210 to 270	°C	
Mold Temperature	15.0 to 60.0	°C	
Back Pressure	1.00 to 1.50	MPa	
NOTE			
1.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	2.0 mm/min		
5.	1.3 mm/min		
6.	80*10*4mm, Cut		
7.	80*10*4 mm, Cut		
8.	63.5*12.7*3.2mm, Cut		
9.	80*10*4mm, Cut		
10.	80*10*4mm, Cut		
11.	63.5*12.7*3.2mm, Cut		
12.	2.20 m/sec		

13.	0.625"d tup
14.	80*10*4mm, Cut
15.	80*10*4mm, Cut

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

