

SABIC® PPcompound 3220H

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 3220H is a 20% talc filled grade which is high heat stabilized, developed for under the bonnet applications. This material has been designed to combine a good performance profile with good processing.

SABIC® PPcompound 3220H is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Processability		
	Heat Stabilized		
	High Heat Resistance		
Uses	Automotive Under the Hood		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.2	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	36.0	MPa	
Break, 3.20 mm, Injection Molded	28.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	50	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	2700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	3.4	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	14	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	2.0	kJ/m ²	
0°C, Injection Molded	2.5	kJ/m ²	
23°C, Injection Molded	3.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	120	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	5.0E-5	cm/cm/°C	
23 to 80°C	1.0E-4	cm/cm/°C	

NOTE

1. Method I (3 point load)

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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

