EMERGE™ ABS 5302

Advanced Resin

Trinseo

Message:

EMERGE ABS 5302 is a black, 20% glass filled ABS which is suitable for use in a wide variety of internal structural component applications in the Information Technology market. This resin exhibits a property balance of flow, rigidity, and dimensional stability.

Applications:

Information Technology Equipment and consumer electronics

Printer internal components

Structural frames

General Information				
UL YellowCard	E54680-469940	E206114-468476		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight			
Features	Good Dimensional Stability			
	Good Flow			
	High Rigidity			
Uses	Electrical/Electronic Applications			
	Structural Parts			
Appearance	Black			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.19	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR)			ASTM D1238	
220°C/10.0 kg	5.0	g/10 min		
230°C/3.8 kg	1.6	g/10 min		
Molding Shrinkage			ASTM D955	
Flow	0.15 to 0.25	%		
Across Flow	0.35 to 0.40	%		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength			ASTM D638	
Yield, 3.20 mm, Injection Molded	70.0	MPa		
Break, 3.20 mm, Injection Molded	70.0	MPa		
Tensile Elongation			ASTM D638	
Yield, 3.20 mm, Injection Molded	2.0	%		
Break, 3.20 mm, Injection Molded	2.0	%		
Flexural Modulus (3.20 mm, Injection Molded)	6350	MPa	ASTM D790	

Flexural Strength (3.20 mm, Injection Molded)	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	72	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	105	°C	
1.8 MPa, Unannealed	100	°C	
Vicat Softening Temperature			
	106	°C	ASTM D1525 ¹
	115	°C	ASTM D1525 ²
CLTE			ASTM D696
Flow : -30 to 29°C	9.0E-5	cm/cm/°C	
Transverse : -30 to 29°C	9.4E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating ³ (1.00 mm, BK, NC, GY)	НВ		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519 Phone: +86 13424755533 Email: sales@su-jiao.com

Littali. sales@su-jiao.com

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

