

Casico™ FR6083

Thermoplastic

Borealis AG

Message:

Casico FR6083 is a thermoplastic, low smoke zero halogen (LSZH) flame retardant, UV stabilised, natural jacketing compound combining with excellent extrusion properties. The composition is based on the elements Carbon, Hydrogen, Oxygen, Silicon and Calcium. Compounds based on these elements will therefore be the only significant constituents of the combustion fumes. Other elements may be present in concentrations less than 0.1%.

General Information			
Agency Ratings	ASTM D 1248, II, Class A, Cat. 4 BS 7655 LTS 1-4 EN 50290-2-27 EN 50363 TM7 HD 603 S1 DMO 1 HD 620 S2 DMZ 3-5 IEC 60502-1 Type ST3 IEC 60502-1 Type ST7 IEC 60502-2 Type ST3 IEC 60502-2 Type ST7 ISO 1872 PE KGHN 33D003 VDE 0207 Teil 24 HM2 VDE 0207 Teil 24 HM4 VDE 0207 Teil 24 HM5		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (15 sec)	53		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹	15.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	500	%	IEC 60811-1-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (110°C, 168 hr)	-85	%	IEC 60811-1-2
Thermal	Nominal Value		
Cold Bend (-40°C)	Pass		
Cold Impact (-40°C)	Pass		
Corrosivity of Combustion Fumes			IEC 60754-2
--	7.00	µS/cm	

Acidity (pH)	5.80	μS/cm	
Vertical Flame Test - Single	Pass		IEC 60332-1
Pressure Test - at High Temperature ²			IEC 60811-3-1
105°C	5.0	%	
115°C	15	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Oxygen Index ³	28	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	
Cylinder Zone 2 Temp.	170	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	190	°C	
Die Temperature	190	°C	
NOTE			
1.	50 mm/min		
2.	6 hours		
3.	Limited		

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

