

CALIBRE™ 603-2

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 603-2 Resin is specially designed for extrusion of super heavy wall sheet and very complex profiles. This resin offers exceptional high melt strength for effective calibration of complex structures, and excellent surface quality. The resin is UV bulk stabilized, but for outdoor use, co-extrusion with a UV cap is needed. It is recommended to apply a 50 micron layer of CALIBRE™ 320UV.

Applications

Multi wall sheet extrusion and profile extrusion

General Information			
Features	Good Melt Strength		
Uses	Profiles		
	Sheet		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792, ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	1.8	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
4.00 mm, Injection Molded	2350	MPa	ASTM D638
4.00 mm, Injection Molded	2400	MPa	ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield, 4.00 mm, Injection Molded	63.0	MPa	
Break, 4.00 mm, Injection Molded	51.0	MPa	
Tensile Elongation			ASTM D638, ISO 527-2
Yield, 4.00 mm, Injection Molded	6.3	%	
Break, 4.00 mm, Injection Molded	50	%	
Flexural Modulus (4.00 mm, Injection Molded)	2400	MPa	ASTM D790, ISO 178
Flexural Strength			
4.00 mm, Injection Molded	93.1	MPa	ASTM D790
4.00 mm, Injection Molded	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	69	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C, 4.00 mm, Injection Molded)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	140	°C	ASTM D648, ISO 75-2/B

1.8 MPa, Unannealed	127	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	146	°C	ISO 306/B50, ASTM D1525 1
Flammability	Nominal Value		Test Method
Flame Rating ² (1.60 mm)	HB		UL 94

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
- 2.

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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



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