

Diakon® ST35G6

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Diakon® ST35G6 is a polymethyl methacrylate-acrylic material. This product is available in Europe and is processed by extrusion.

Diakon® The main features of ST35G6 are:

flame retardant/rated flame

Impact modification

General Information			
Additive	Impact modifier		
Features	Impact modification		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	5.7	g/10 min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.35	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	44		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	47.0	MPa	ISO 527-2
Tensile Strain (Yield)	25	%	ISO 527-2
Flexural Modulus	1900	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	58	kJ/m ²	ISO 179/1eU
Notched Izod Impact	5.8	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	95.0	°C	ISO 306/A
--	85.0	°C	ISO 306/B
CLTE - Flow	1.1E-4	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Optical	Nominal Value	Unit	Test Method

Refractive Index	1.490		ASTM D542, ISO 489
Transmittance	89.5	%	ASTM D1003
Haze	3.0	%	ASTM D1003

Additional Information

Mold Shrinkage, H961/30: .4 to .8%

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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

