

Product Dat a Sheet

a **DSM**Product

Ch emical/p hysical n ature Sy nolite 5750- A-1 is a DCPD bas ed, pre-ac celerated, non-thixotropic, uns aturated polyester resin in s tyrene m onomer.

Major applications

It is designed for general casting applications and can be us eds pecifically for shower tray casting behind a gelc oat or ABS capped acrylic.

Principal properties

Sy nolite 5750- A-1 is a resilient resin with controlled exotherm. It is characterised by its high filler acceptance and rapid cure rate.

Products pecifications

Propert y	Range	Unit	TM
Viscosity, 23° C	180 - 200	Pa.s	2013
S olids content, IR	64.0 - 67. 0	%	2033
Appearanc e	clear	-	2265
Sta bility	min. 75	minutes	2300C
Gel time from 25 t o 35° C	8.25 - 10. 25	minutes	2625
Cure t ime from 25° C t o peak	16 - 20	minutes	2625
Peak temperature	120 - 140	°C	2625
Cure t ime from 35° C t o peak	0 - 9. 0	minutes	2625

Remarks

TM 2013: s pindle Z 2, s peed 100 s -1, pr ogram

TM 2026: 1% in Butanox M50

Properties of the liquid r es in (ty pic al values)

Propert y	Va lue	Unit	TM
Sta bility, no init., dark,	3	months	-
Flas h point	33	°C	2800

Propert ies of cast unfilled resin (typical values)

Tropert les of cast diffilled resiff (typical v aides)					
Propert y	Va lue	Unit	TM		
Tens ile s trength	40	MP a	IS O 527-2		
Tens ile E -modulus	3.3	GP a	IS O 527-2		
E longation at break	1.5	%	IS O 527-2		
Flexural s trength	80	MP a	IS O 178		
Flexural E -Modulus	3.0	GP a	IS O 178		
Heat Deflection Tem p. (HDT)	82	°C	IS O 75-A		
Hardnes s Barcol 934. 1	42	Ba rcol	2604		

Cas ting cured overnight at am bient and post-cured for 2 hrs at 90° C.

Guidelin es b efore u se

Bef ore us e, the r es in s hould be c onditioned at a w ell defined, applic ation dependant tem perature (usually 15°C m inimum for a MEKP / Co c ure). Stir the product before blending.

Storage guide lines

The resin's hould be stored in the original, unopened and undam aged packaging, in a dry place at temperatures between 5°C and 30°C. Shelf—life is reduced at higher temperatures. The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to sunlight. Store in dark and in 100% light tight containers only. With DCPD resins there is a tendency for skin formation if exposed to air. Whilst products are formulated to reduce this characteristic, exposure to air and ventilation in bulk storage facilities should be minimised3

Material S afety

A material s afety data s heet for the product is available on reques t.

Test methods

Test methods (TM) referred to in the table(s) are available on r eques t.

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Head of fice: D 5 M C omposite R esins AG
P.O. B ox 1227, 8207 S chaffhausen, S witzerland, Tel. +41 (0)52 644 1212
Fax. +41 (0)52 644 1200. Internet si te: www.dsm.compositeresi ns.com

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