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ACRYLITE[®] Resist[™] acrylic sheet is Degussa's global brand for modified acrylic sheet products, formerly known as ACRYLITE PLUS[®] acrylic sheet. Available worldwide, it combines the beauty and clarity of acrylic with high impact performance for longer lasting, more cost-effective store fixtures and P-O-P displays.



The product is available in two grades:

ACRYLITE Resist 65 acrylic sheet is the premium impact modified acrylic sheet product (formerly known as ACRYLITE PLUS sheet).

ACRYLITE Resist 45 acrylic sheet offers very good impact strength and durability with exceptional clarity making it the practical and economical alternative for interior store fixtures and P-O-P displays.

ACRYLITE Resist sheet provides the following outstanding properties:

- Excellent Optical Clarity
- High Impact Strength
- Weatherability
- Ease of Fabrication
- Light Weight
- Surface Hardness

ACRYLITE Resist sheet cuts and routs very quickly to save time and money in fabrication. All ACRYLITE Resist sheet products readily cement to each other and to ACRYLITE FF acrylic sheet in any combination of thicknesses for easy fabrication. Additional advantages over PETG are better edge color, better optical clarity and weatherability.

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	ASTM method	ACRYLITE RESIST 45 sheet (0.118")	ACRYLITE RESIST 65 sheet (0.118")	ACRYLITE ACRYLITE FF sheet (0.118")
Mechanical				× ,
Specific Gravity	D 792	1.18	1.16	1.19
Tensile Strength	D 638	8.6 kpsi (59.2 MPa)	6.7 kpsi (46.2 MPa)	9.7 kpsi (66.8 MPa)
Tensile Elongation, Yield	D 638	5.8%	6.6%	3.9%
Tensile Modulus of Elasticity	D 638	400 kpsi (2755 MPa)	320 kpsi (2204 MPa)	490 kpsi (3375 MPa)
Flexural Strength	D 790	14.7 kpsi (101.3 MPa)	12.0 kpsi (82.7 MPa)	17.0 kpsi (117.1 MPa)
Flexural Modulus of Elasticity	D 790	370 kpsi (2548 MPa)	300 kpsi (2066 MPa)	480 kpsi (3306 MPa)
Rockwell Hardness	D 785	88 M	70 M	93 M
Impact Strength: Izod Milled Notch	D 256	0.66 ft-lb/in (34.6 J/m)	0.75 ft-lb/in (39.4 J/m)	0.40 ft-lb/in (21.0 J/m)
Charpy (unnotched)	D 5942-97	14.1 ft-lb/in (740 J/m)	16.5 ft-lb/in (866 J/m)	_
Gardner Impact	D 3029	20 in-lb (11 J)	40 in-lb (21 J)	2 in-lb (1 J)
Optical				
Refractive Index	D 542	1.49	1.49	1.49
Gloss 20°	D 523	125	140	—
Light Transmission	D 1003	91.6%	91%	92%
Thermal				
Forming Temperature	—	—	270-350°F (132-177°C)	300°F (149°C)
Deflection Temperature Under Load, 264 psi	D 648	208°F (98°C)	203°F (95°C)	210°F (99°C)
Vicat Softening Point	D 1525	217°F (103°C)	210°F (99°C)	221°F (105°C)
Maximum Recommended Continuous Service Temp.	_	_	160°F (71°C)	(71°C)
Coefficient of Linear Thermal Expansion	D 696	0.00004 in/in/°F (0.00007 m/m/°C)	0.000044 in/in/°F (0.00008 m/m/°C)	0.00004 in/in/°F (0.00007 m/m/°C)
Self-Ignition Temperature	D 1929	—	750°F (399°C)	850°F (454°C)
Smoke Density	D 2843-99	_	2.2% @ 0.060" (1.5 mm) 3.8% @ 0.236" (6.0 mm)	4.8% @ 0.250" (6.4 mm)
Average Burn Rate	D 635-98	_	1.4in/min (36 mm/min) @ 0.060" (1.5 mm) 1.0in/min (25 mm/min) @ 0.236" (6.0 mm)	1.0 in/min (25 mm/min) @ 0.125" (3.2 mm)
Water Absorption				
24 hrs @ 73°C	D 570	0.3%	0.3%	0.2%

For additional product information, or to locate a local authorized CYRO distributor, please call 800.631.5384, visit www.cyro.com or contact the nearest CYRO sales office.



FIRE PRECAUTIONS

ACRYLITE acrylic sheet products are combustible thermoplastics. Precautions should be taken to protect these materials from flames and high heat sources. ACRYLITE sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be present and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgment in the use of these versatile materials and recommend that building codes be followed carefully to assure they are used properly.

IMPORTANT NOTICE

The information and statements contained herein are not to be taken as a warranty or representation for which we assume legal responsibility nor as permission, inducement or recommendation to practice any patented invention without a license. The information is offered solely for your consideration investigation and verification. Users should perform their own testing and verification to determine the applicability and suitability of the information and any products for their own particular purpose.

TECHNICAL SUPPORT

Visit the TechKnowlogy Center at www.cyro.com where visitors have immediate access to FAQ, technical information, tips and hundreds of other facts about acrylic sheet products.

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