Product Data

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R0601

ACRYLIC MODIFIED, HIGH MOLECULAR WEIGHT NPG/ISOPHTHALIC CASTING RESIN

FEATURES

* 100% NPG/Isophthalic Resin System For Excellent Toughness and Chemical Resistance *

* Outstanding Stain Resistance *

* Acrylic Modified For Improved Durability *

* Excellent Light Transmission Properties *

* Superior Color and Clarity *

* High Heat Distortion Temperature *

* UV Light Stabilized *

HK Research's R-0601 Casting Resin is formulated from a high molecular weight, 100% NPG/Isophthalic resin system which imparts toughness, chemical resistance and a high heat distortion temperature to this product. R-0601 Casting Resin has been further compounded with a blended monomer of 3 parts styrene: 1 part acrylic monomer to improve the durability of the finished part.

TYPICAL PROPERTIES OF LIQUID RESIN

Color	Pink to Light Blue
Viscosity, 77°F	700-900 cps
Weight Per Gallon	8.87 lbs.
Specific Gravity	1.07
Stability, Uncatalyzed, 77°F	3 months minimum

TYPICAL CURING PROPERTIES

Neat Resin:

Gel Time, 77°F, 1.0% RCI 46-702	7-9 minutes
Gel To Peak	14-17 minutes
Peak Exotherm, 100 gram mass	320-350°F

Filled Resin:

R-0601	35	35	35
DF-40 (R.J. Marshall)	65	--	--
SB-431 (Solem)	--	65	--
OC-1000 (Alcoa)	--	--	32.5
Hydral 710 (Alcoa)	--	--	32.5
(Catalyze at 1.5% of Resin Weight only)			
Filled Gel Time @ 75°F	8-12'	8-12'	10-15'
Demold Time	1-2 hrs.	1-2 hrs.	1-2 hrs.
Barcol Hardness,			
R.T. cure, overnight	35-45	35-45	35-45
R.T. cure, 48 hours	45-50	45-50	45-50
Heated Post Cure,			
2 Hours @ 150°F	55-60	55-60	55-60

SAFETY CONSIDERATIONS

R-0601 High Molecular Weight Casting Resin contains styrene monomer and methyl methacrylate, which are flammable liquids. Keep away from sparks, heat and open flames (including pilot lights). Electrical equipment should be vapor-proof and protected from breakage.

Monomer vapors are heavier than air and will tend to concentrate in the low areas of molds and in pockets immediately above the floor area. To keep vapors within a safe limit in all areas, adequate ventilation or suction fans should be used that will remove these monomer vapors.

All equipment must be grounded - including spray guns and molds.

Both the polyester resin and the catalyst may cause burns to eyes and skin. Do not get in the eyes! Avoid breathing vapors! Gel coat applicators should wear a NIOSH approved respirator effective for vapors, spray mist and dust. In case of accidental contact, remove contaminated clothing and wash affected skin areas with soap and copious quantities of water. Contact a physician if persistent skin irritation occurs. For eyes, immediately flush with plenty of water for at least 15 minutes; call a physician immediately. Wash contaminated clothing before reusing.