

U2 U8:34a KELLYS CRATS 313-738-3300
 U2/U2 10.21 0047 348 U348 NEIL ENTERPRISE
 Revd 2-21-02 *Blick-Quick Button KIT* 60803-XXXX 02/20/0

Trade Name	K-Resin®		
Grade	KR03		
Manufacturer	Phillips Chemical Company		
Generic Type	Styrene Butadiene Block Copolymer		
Status	Current Material		
Property-----	Value-----	Unit-----	
Tensile strength @ Yld	ASTM D638 3700	psi	
-Optical			
Haze	ASTM 1003 1.50	%	
Transmittance	ASTM 1003 90.00	%	
-Thermal			
Deflection Temp @ 264 psi	ASTM D648 163	F	
Vicat Softening Point	ASTM D1525 188	F	
-Underwriter Labs			
Rel Temp Indx Elect	UL 746 122 @ 0.05800"	F	
Rel Temp Indx Mech w/Imp	UL 746 122 @ 0.05800"	F	
Rel Temp Indx Mech w/oImp	UL 746 122 @ 0.05800"	F	
UL 94 Rating	UL 94 HB @ 0.05800"		
-Injection Molding			
Drying Temp	140	F	
Drying Time	1.00	hours	
Mold Temp	80-120	F	
Processing Temp	380-450	F	
-Films			
Dart Drop Impact	ASTM D1709 375.00	g	

V40194/V2495

-Material Notes:

Main features:
 Low specific gravity
 Absence of stress-whitening in pure form

Range of applications:

Applications where crystal impact polystyrene, oriented polystyrene sheet, the cellulose fiber PVC have been used.

Additional properties:

Volume resistivity > 1E15 Ohm-cm

Status	Current Material	Unit
Property	Value	
-General		
Agency Ratings	PDA 21 CFR 177.1640 USP Class VI-50	
Appearance	Transparent Opaque Colors Available Clear	
Features	Copolymer Rigidity, Good Sterilizable, Ethylene Oxide Sterilizable, Radiation Toughness, Good	
Filler/Additive	Unfilled	
Processing Methods	Injection Molding Extrusion, Sheet Thermoforming Extrusion, Profile Extrusion	
Recycled	No	
Uses	Medical Applications Packaging Toys Household Goods Packaging, Food Cups Lids, Drink Housings Containers Compounding	
-Physical		
Linear Mold Shrink -Flow	ASTM D955 7.0000	mils/in
Melt Flow	ASTM D1238 7.50	g/10 min
Melt Flow Condition	ASTM D1238 G - 200°C/5.00 kg	
Specific Gravity	ASTM D792 1.0100	-
Water Absorption 24 hrs.	ASTM D570 0.090	%
-Mechanical		
Elongation @ Yield	ASTM D638 160.0	%
Flexural Modulus	ASTM D790 205000	psi
Flexural strength @ Yld	ASTM D790 4900	psi
Hardness Value	65 Shore D - Durometer	
Instrumented Dart Impact	ASTM D3763 263.00 @ 0.12500"	in-lbf
Notch Izod Impact Room Temp	ASTM D256 0.75 @ 0.12500"	ft-lb/in

Printed from IDES' Prospector 3.31

Database Date: 11/21/98