



Quality Custom Colored Engineering Resins
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TECHNICAL DATA SHEET

MATERIAL: MTEXIN 390 BK

DESCRIPTION: TPU

PROCESSING CHARACTERISTICS				
STOCK MELT TEMPERATURE		SOP	388-405	°F
MOLD TEMPERATURE		SOP	60-100	°F
DRYING TEMPERATURE		SOP	210-230	°F
DRYING TIME		SOP	2-3	hours
MAX. MOISTURE IN PROCESS		SOP	0.03	%
DRYER DEW POINT		SOP	0	°F
GENERAL PHYSICAL PROP.				
SPECIFIC GRAVITY	ASTM	D792	1.22	g/cc ³
MOLD SHRINKAGE 1/8" SECTION LINEAR FLOW	ASTM	D955	0.007-0.010	in./in.
SHORE HARNNESS	ASTM	D2240	88 A	in./in.
WATER ABSORPTION (SATURATION)	ASTM	D570		%
MECHANICAL PROPERTIES				
TENSILE STRENGTH	ASTM	D412	5,000-6,000	psi
TEAR STRENGTH	ASTM	D624	600-700	lbs/in
ELONGATION @ BRK	ASTM	D412	>500	%
COMPRESSION SET (73°F, 22 Hours)	ASTM	D395B	16	%
FLEXURAL MODULUS	ASTM	D790	4,500-5,500	psi
THERMAL PROPERTIES				
FLAMMABILITY VERTICAL BURN V-0	UL	94	---	@ 3.0mm
VICAT SOFTENING POINT	ASTM	D1525		°F
DTUL - UNANNEALED (@ 66 psi)	ASTM	D648		°F
ELECTRICAL PROPERTIES				
SURFACE RESISTIVITY	ASTM	D257		Ohms
VOLUME RESISTIVITY	ASTM	D257		Ohm.cm

DATA ARE OBTAINED FROM SPECIMENS MOLDED UNDER CAREFULLY CONTROLLED CONDITIONS FROM REPRESENTATIVES SAMPLES OF THE COMPOUND DESCRIBED HEREIN. PROPERTIES MAY BE MATERIALLY AFFECTED BY THE MOLDING TECHNIQUES APPLIED AND BY THE SIZE AND SHAPE OF THE ITEM MOLDED. NO ASSURANCE CAN BE IMPLIED THAT ALL MOLDED ARTICLES WILL HAVE THE SAME PROPERTIES AS THOSE LISTED. THIS DATA IS NOT BASED ON THE MINIMUM QUANTITY OF RESULTS REQUIRED TO REPORT AS QUALIFYING SPECIFICATIONS AND MAY BE SUBJECT TO REFINEMENT. DATA HEREIN IS TYPICAL AND NOT TO BE CONSTRUED AS SPECIFICATIONS.

¹ Desiccant type dryer required. Always confirm that moisture levels are below the stated maximum before processing.

² Value per Modified Plastics, Inc. testing.