

NORYL™ RESIN 731S

REGION ASIA

DESCRIPTION

NORYL 731S is an unfilled material, with a Vicat B/120 of 135C according ISO 306. NORYL 731S cust spec 1977 has been listed for potable water applications up to 85C by the UK WFBS according BS 6920 in limited colours. As of June 2007, this grade will no longer be supported with biocompatibility information and should not be used for medical applications which require biocompatibility. Alternative grade HN731SE.

TYPICAL PROPERTY VALUES

Revision 20180906

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	58	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	30	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	93	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2420	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	208	J/m	ASTM D 256
Izod Impact, notched, -40°C	133	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	117	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	126	°C	ASTM D 648
CTE, -40°C to 60°C, flow	1.3E-04	1/°C	ASTM E 831
Relative Temp Index, Elec	105	°C	UL 746B
Relative Temp Index, Mech w/impact	90	°C	UL 746B
Relative Temp Index, Mech w/o impact	105	°C	UL 746B
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Water Absorption, 24 hours	0.06	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
ELECTRICAL			
Dissipation Factor, 50/60 Hz	2.65	-	ASTM D 150
INJECTION MOLDING			
Drying Temperature	105 – 110	°C	
Drying Time	2 – 4	hrs	
Drying Time (Cumulative)	8	hrs	
Melt Temperature	280 – 310	°C	
Mold Temperature	70 – 95	°C	

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