LNP™ STAT-LOY™ COMPOUND YX02589C

PDX-Y-02589 CCS

DESCRIPTION

LNP* STAT-LOY* YX02589C is a compound based on Polyester Elastomer resin containing proprietary fillers. Added features of this grade include: Antistatic, Clean Compounding System

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	6	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	71.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	30	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	40	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	6	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	161.7	%	ISO 527
Tensile Modulus, 1 mm/min	40	MPa	ISO 527
Flexural Stress	2	MPa	ISO 178
Flexural Modulus, 2 mm/min	40	MPa	ISO 178
IMPACT			
Multiaxial Impact	25	J	ISO 6603
Instrumented Impact Total Energy, 23°C	18	J	ASTM D 3763
THERMAL			
CTE, -30°C to 30°C, flow	2.45E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	2.89E-04	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Density	1.086	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	5.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.61	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.65	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	8.5	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+10 – 1.E+13	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	215 – 240	°C	
Front - Zone 3 Temperature	225 – 240	°C	
Middle - Zone 2 Temperature	205 – 215	°C	
Rear - Zone 1 Temperature	180 – 195	°C	
Mold Temperature	25 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Screw Speed	30 – 60	rpm	

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