

LNP™ STAT-LOY™ YX02589C compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

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
Also known as: LNP* STAT-LOY* Compound PDX-Y-02589 CCS
Product reorder name: YX02589C

General Information			
Filler / Reinforcement	Proprietary packing		
Additive	Antistatic property		
Features	Low (to None) Ion Content		
	Antistatic property		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.61	%	ASTM D955
Transverse flow: 24 hours	0.65	%	ASTM D955
Water Absorption			
24 hr, 50% RH	5.5	%	ASTM D570
Equilibrium, 23°C, 50% RH	8.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	38.0	MPa	ASTM D638
--	46.0	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	6.00	MPa	ASTM D638
Yield	6.00	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	71	%	ASTM D638
Yield	160	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	45.0	MPa	ASTM D790
-- ⁵	49.0	MPa	ISO 178
Flexural Stress	2.36	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			
23°C, Total Energy	18.1	J	ASTM D3763

--	25.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	2.5E-4	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	2.9E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 - 1.0E+13	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	182 - 193	°C	
Middle Temperature	204 - 216	°C	
Front Temperature	227 - 238	°C	
Processing (Melt) Temp	216 - 238	°C	
Mold Temperature	27 - 54	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		

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