

LNP™ THERMOCOMP™ YX12401 compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* YX12401 is a compound based on Polyester Elastomer containing proprietary fillers.
Also known as: LNP* THERMOCOMP* Compound YX12401
Product reorder name: YX12401

General Information			
Filler / Reinforcement	Proprietary packing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	2.2	%	ASTM D955
Transverse flow: 24 hours	2.2	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.32	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	382	MPa	ASTM D638
--	412	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	22.0	MPa	ASTM D638
Yield	22.0	MPa	ISO 527-2/5
Fracture ³	33.0	MPa	ASTM D638
Fracture	31.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	28	%	ASTM D638
Yield	28	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁵	321	MPa	ASTM D790
-- ⁶	318	MPa	ISO 178
Flexural Stress	14.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			
23°C, Total Energy	33.0	J	ASTM D3763
--	41.8	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, unannealed, 3.20mm	112	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁷	87.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	47.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁸	49.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	2.0E-4	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	1.7E-4	cm/cm/°C	ASTM D696

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. Type 1, 5.0 mm/min
5. 1.3 mm/min
6. 2.0 mm/min
7. 80*10*4 mm
8. 80*10*4 mm

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