

PRODUCT INFORMATION

TARODUR 100 X0

ABS flame retardant UL94 V0, good mechanical properties, good flow and surface appearance, without blooming.

Form Pellets UL file E143048

Key Features

- Designed for injection moulding applications
- Flame retardant
- Good surface aspect

Compliance

- UL94 V0 all colours approved at 1,6 mm.
- European Directive 2011/65/EU (RoHS 2)
- European Regulation No. 1907/2006/EU (REACH -Substances of very high concern, SVHC)

Availability

- L: UV stabilized
- H: heat stabilized
- All colours
- AS: antistatic

Process

- INJECTION MOULDING

Application

- Electronic
- Electrical
- Covering

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Volume Resistivity	IEC 60093	Ohm cm	10exp(15)		
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	> 400		
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm^3	1,19 - 1,21		
Water Absorption (24h / +23°C)	ISO 62	%	0,3		
Water Absorption at Saturation	ISO 62	%	0,7		
Mould Shrinkage (Parallel)	Internal method	%	0,5 - 0,7		
Mould Shrinkage (Normal)	Internal method	%	0,5 - 0,7		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	35	220°C - 10 kg	·

The listed data are in the normal range of product properties, they should not be used to establish specification nor as the basis of design. Values are valid for natural coloured version only.

Unless specified to the contrary, the given values have been established on standardized test specimens at room temperature. These values are for natural colour only. The figures should be regarded as guide values only and not as binding minimum values. Please note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions, pigments and any other additives.

All information, recommendation or technical advice provided by TARO PLAST S.p.A. are given in good faith but without warranty, to the best of its knowledge and based on current procedures in effect. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing methods and conditions of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely under your own responsibility.



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MECHANICAL

MEGIAMOAL				
Tensile Modulus	ISO 527-1,2	MPa	2700	Speed 1 mm/min
Tensile Yield Strength	ISO 527-1,2	MPa	46	Speed 50 mm/min
Elongation at Break	ISO 527-1,2	%	10	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	2500	Speed 1 mm/min
Flexural Max Strength	ISO 178	MPa	70	Speed 1 mm/min
IZOD Notched Impact (+23°C)	ASTM D256	J/m	120	
IZOD Notched Impact (-25°C)	ASTM D256	J/m	45	
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m^2	10	
THERMAL				
Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	95	50°C/h
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	90	50°C/h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	80	Unannealed, 120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	75	
Continuous service temperature	UL746 B	°C	60	
Coefficient of linear thermal expansion (parallel)	ISO 11359-1,-2	K^-1	5,5x10exp(-5)	-30°C /+30°C
FLAMMABILITY				
Flame Behaviour (1,6 mm)	UL94	Class	V0	UL approved
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	960	
Oxigen index	ASTM D2863	%	27	
Needle flame test (1,6 mm)	IEC 60695-11-5	-	PASSED	

Value		
70 - 80°C		
70 - 80°C		
2 - 4 h		
1 - 2 h		
< 15%		
220 - 250°C		
	70 - 80°C 70 - 80°C 2 - 4 h 1 - 2 h < 15%	

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Feed Temperature	180°C			
Rear Temperature	210°C			
Middle Temperature	220°C			
Front Temperature	230°C			
Nozzle Temperature	240°C			
Mould Temperature	50 - 80°C			
Injection Rate	Medium to fast			
Back Pressure	0,2 - 0,5 Mpa			
Screw Revolving Speed	As low as possible			
Cushion	3 - 6 mm			
Screw Compression Ratio	2:1 - 3:1			

Notes During processing, a dehumidifying hopper dryer is recommended at a temperature of 60 to 80°C.

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