TAROMID A 280 X0

Polyamide 66

Taro Plast S.p.A.

Message:

Polyamide 66 medium viscosity, UL94 V0 self extinguishing, very good flame proofing also at low thickness, good processing and good mechanical properties.
UL94 V0 approved all colours at 0,88 mm. UL746B approved.
Available: different colours, heat stabilised (H), release agent (W), and without PBDE/PBDF.

General Information			
UL YellowCard	E143048-223244		
Additive	Heat Stabilizer Mold Release		
Features	Flame Retardant Good Mold Release Good Processability Heat Stabilized Medium Viscosity Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.22 to 1.24	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	1.2 to 1.8	%	
Across Flow	1.7 to 2.5	%	
Water Absorption			
23°C, 24 hr	1.0 to 1.5	%	ASTM D570, ISO 62
Saturation	8.0	%	ASTM D570
Saturation, 23°C	8.0	%	ISO 62
Granule Humidity	< 0.15	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	84.0	MPa	
Break	80.0	MPa	
Tensile Elongation (Break)	5.0	%	ASTM D638, ISO 527-2
Flexural Modulus	3100	MPa	ASTM D790, ISO 178

Flexural Stress			
-- [1]	135	MPa	ISO 178
-- [2]	130	MPa	ISO 178
Yield	135	MPa	ASTM D790
Break	130	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	3.6	kJ/m²	ASTM D256, ISO 179
Notched Izod Impact			ISO 180, ASTM D256
-20°C, 3.20 mm	22	J/m	
23°C, 3.20 mm	40	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
--	65.0	°C	UL 746B
-- [4]	90.0	°C	IEC 60216
-- [5]	100	°C	IEC 60216
-- [6]	120	°C	IEC 60216
-- [7]	160	°C	IEC 60216
Vicat Softening Temperature			
--	250	°C	ASTM D1525, ISO 306/A50 10 [8]
--	240	°C	ASTM D1525, ISO 306/B50 11 [9]
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	250 to 256	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	1.2E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	22	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	375	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.880 mm)	V-0		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	775	°C	IEC 60695-2-13
Oxygen Index	30	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
--	80.0 to 90.0	°C	
Pre-heater	80.0 to 100	°C	
Drying Time			
--	1.0	hr	

Pre-heater	3.0	hr
Processing (Melt) Temp	260 to 270	°C
Mold Temperature	70.0 to 90.0	°C
Injection Rate	Moderate	

NOTE	
1.	Yield
2.	Break
3.	6x4x50 mm
4.	20000 hrs
5.	Short Term
6.	Heat Stabilized, 20000 hrs
7.	Heat Stabilized, Short Term
8.	Rate A (50°C/h), Loading 1 (10 N)
9.	Rate A (50°C/h), Loading 2 (50 N)

Recommended distributors for this material

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