

TAROBLEND 85

Polycarbonate + ABS

Taro Plast S.p.A.

Message:

PC/ABS alloy high thermal resistance, good flow and very high mechanical properties, low moisture absorption and good dimensional stability.
Available: all colors, UV stabilized (L).

General Information			
Additive	UV Stabilizer		
Features	Good Dimensional Stability		
	Good Flow		
	Good UV Resistance		
	High Heat Resistance		
	Low Moisture Absorption		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14 to 1.16	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	12	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.70	%	
Across Flow	0.40 to 0.70	%	
Water Absorption			
23°C, 24 hr	0.10	%	ASTM D570, ISO 62
Saturation	0.40	%	ASTM D570
Saturation, 23°C	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	55.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	60	%	ASTM D638, ISO 527-2
Flexural Modulus	2200	MPa	ASTM D790, ISO 178
Flexural Stress			
--	85.0	MPa	ISO 178
Break	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	35	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	No Break		ASTM D256, ISO 179
Notched Izod Impact			ASTM D256, ISO 180

-30°C, 3.20 mm	380	J/m	
23°C, 3.20 mm	650	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	120	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature ³	100	°C	IEC 60216
Vicat Softening Temperature			
--	135	°C	ASTM D1525, ISO 306/A50 4 ⁴
--	125	°C	ASTM D1525, ISO 306/B50 5 ⁵
Ball Pressure Test (125°C)	Pass		VDE 0470
CLTE - Flow (-30 to 30°C)	6.5E-5	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)	24	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	24	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Pre-heater	80.0 to 100	°C	
Drying Time			
--	1.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	230 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Rate	Moderate		
NOTE			
1.	6x4x50 mm		
2.	6x4x50 mm		
3.	20000 hrs		
4.	Rate A (50°C/h), Loading 1 (10 N)		
5.	Rate A (50°C/h), Loading 2 (50 N)		

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