

Product Code: CO41000

Product Type:

CO 41000 is a black transparent compound based on polycarbonate (PC) designed for infrared light.

Product Description:

CO41000 is special grade for provides a balance of toughness and mechanical properties, stiffness, surface hardness, better dimensional stability, good thermal and chemical resistance.

Product Application:

This compound is used for parts needing infrared light transmission without reducing length of efficiency.

Product Properties:

Property	Test Method	Test Condition	Value	Unit
Melt Flow Index	ASTM D 1238-10	(300 C°, 1.2 kg)	17±1	gr/10min
Pellet size	BCS METHOD	(25 °C)	30-40	Pieces/g
Moisture Content	ASTM D789	(105 C°, 1 hr)	max 0.2	%
Tensile Strength at yield	ASTM D638	(50mm/min)	62±2	MPa
Tensile strain at Break	ASTM D638	(50mm/min)	100±5	%
Izod Impact Strength	ASTM D256	Notched at 23 °C	730±30	j/m

Processing Conditions:

It is recommended that CO41000 should be dried at (70-80°C) for 2 hours.

The following injection molding conditions are recommended starting point for CO 41000:

Front Temp (°C)	Center Temp(°C)	Rear Temp (°C)	Nozzle Temp (°C)	Mold Temp (°C)
270-290	280-300	290-310	280-300	60-90

Product Packaging & Storage:

The packing is 25KG per bag, laminated moisture proof woven bag. Keep the product in cool & dry place. Away from the direct sunlight, high temperature and rain pour.

All mentioned information in this paper are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any data given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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