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TECHNICAL DATA SHEET

Type:	Impact Block Copolymer
Product Name:	PROPILCO 60C90ND

Characteristics: High melt flow rate control reology Impact block copolymer polypropylene; good impact/stiffness balance; tough weld line; with nucleant and mold release additives.

Recommended for: Injection molding of thin wall rigid containers, fast cycle time; injection molding general purpose applications.

Property	English Units	SI Units	ASTM Test
Melt Flow (230 °C-2.16 Kg)	60 g/10 min.	60 g/10 min.	D 1238 00 B
Tensile yield strength (50 mm/min.)	3600 psi	24.7 MPa	D 638 01
Tensile yield elongation (50 mm/min.)	5.2 %	5.2 %	D 638 01
Flexural modulus 1% secant (1.3 mm/min.)	175000 psi	1202.8 MPa	D 790 00 1A
Notched Izod Impact strength (73 °F/23 °C)	1.1 ft-lb/in	58.5 J/m	D 256 00 A
Gardner impact strength (-22 °F/-30 °C)	110 in-lb	12.3 J	D 5420 98 A
Gardner impact strength (73 °F/23 °C)	200 in-lb	22.4 J	D 5420 98 A

@ Type I specimen, 3.2 mm thick injected according with ASTM D 4101 00 method. Values shown are averages not to be interpreted as product specifications. These values may shift as additional data are accumulated; Propilco shall not be under a duty to notify you any changes to the specifications, therefore we advise the receiver to ask for a new declaration periodically.

IMPORTANT: The information contained herein corresponds to typical values and should be considered as a guide in the behavior and applicability of our resins and it is based on the data available to us and is believed to be correct as the date of publication, however we make no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from user thereof or for any printing errors. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws are observed. PROPILCO declines all responsibility that may arise directly or indirectly, from the use of such information nor do we offer any warranty or immunity against patent infringement.

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NOTE: Food contact articles or articles which will be subjected to any kind of treatment such as sterilization and ozonization, a FDA certificate should have to be requested www.propilco.com or contacting our Customer Service. Propilco shall not be under a duty to notify you any changes to the regulations.

STORAGE: Storage time of natural materials longer than 6 months may have a negative influence on the quality of the final product (for example brightness). It is recommended to convert all materials latest within 6 months of production.

The product should be stored in dry conditions at temperatures below 40 °C and protected from UV-light. Improper storage can initiate degradations, which results in odor generation and color changes and can have negative effects on the physical properties of the product. If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During storage polypropylene should not be exposed to UV radiation. Producer does not take responsibility for any damages caused by adverse storage.

Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or to reimburse of the purchase price at Propilco's option, and in no event shall Propilco be liable for special, consequential, incidental, punitive, or exemplary damages.

PROPILCO S.A. products do not have additives with metals or other substances on purpose of oxi-degradation. These additives and the decomposition and disintegration of polypropylene caused by oxi-degradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Legislations, Recommendations or Communications related. The use of these additives with PROPILCO S.A. products implies immediate loss of performance guarantee described in this technical data sheet.

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