

Technical Data Sheet

ESDEX™ 73090A is a linear, aromatic polyurethane, supplied in form of white or slightly yellowish pellets, which combines a high crystallisation rate and a high thermoplasticity level.

SPECIFICATION

Melt Flow Index (170°/2.16 Kg)	4 - 9 g/10 min	ISO 1133
---------------------------------------	-----------------------	-----------------

PHYSICAL PROPERTIES

Property	Typical values *	Test Method
Density @ 20°C	Approx. 1.18 g/cm ³	ISO 2781 (ASTM D-792)
Shore Hardness	90A	ISO 868 (ASTM -2240)
Softening range	60 - 65° C	MQSA 70A
Melting range	70 - 75° C	MQSA 70A
Crystallization rate	High	MQSA 12B
Thermoplasticity	High	MQSA 68A
Tensile Strength **	25 MPa (4351 psi)	ISO 527 (ASTM D-412)
Elongation @ Break **	763 %	ISO 527 (ASTM D-412)
Modulus @ 100% Elongation **	5 MPa (725 psi)	ISO 527 (ASTM D-412)
Modulus @ 300% Elongation **	5 MPa (870 psi)	ISO 527 (ASTM D-412)

* These are typical values & should not be used for establishing specifications.

** Extruded films; approx. 0.2 mm thickness

WORKING INSTRUCTIONS

For optimum results, previous drying of the product during 3-6 hours at 40-50 °C is advisable, in a hot air circulatory, vacuum or desiccant-air dryer.

Suggested temperature profile is depicted in the table below.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

© 2018 The Lubrizol Corporation.
All rights reserved. All marks are the property of The Lubrizol Corporation.



<http://go.lubrizol.com/EP>

Zone 1	115°C (239°F)	125°C (257°F)
Zone 2	185°C (365°F)	195°C (383°F)
Zone 3	185°C (365°F)	195°C (383°F)
Zone 4	160°C (320°F)	170°C (338°F)
Die	160°C (320°F)	170°C (338°F)

HEALTH AND SAFETY

A safety data sheet on **ESDEX™ 73090A** is available, with all safety information. The usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, gloves and protective goggles.

PACKAGING

Multifoil paper bags of 25 Kg. or PE bags of 25 Kg.
Bags are shipped on pallets of 750 kg

STORAGE

ESDEX™ 73090A must be stored in a cool (15–25°C) and environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

Our **TECHNICAL SERVICE** will answer any inquiries about our product and its applications.

For further information refer to Lubrizol Advanced Materials processing guides.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

© 2018 The Lubrizol Corporation.
All rights reserved. All marks are the property of The Lubrizol Corporation.



<http://go.lubrizol.com/EP>