

Lubrizol

**PEARLBOND™ TPU
FOR REACTIVE HOT
MELTS (HMPUR)
PRODUCT
SELECTION
GUIDE**



**LUBRIZOL
ENGINEERED
POLYMERS**

**ADVANCING MATERIALS.
ELEVATING PERFORMANCE.**

TPU (THERMOPLASTIC POLYURETHANE) FOR REACTIVE HOT MELTS (HMPUR)

IDENTIFICATION	MELTING BEHAVIOR					MELT VISCOSITY	CRYSTALLIZATION BEHAVIOR			OH VALUE	MOISTURE CONTENT	APPLICATION				
	TPU Polyol type	Hardness (Shore A/D) (ASTM D2240)	Melt Flow Index (g/10min)		Köfler Melting Point (°C) (MQSA 70A method)	DSC Melting Peak (°C) (CRIST-20 method)	Pa.s (ISO 1133)	DSC Tg Temperature (°C)	DSC Tcr rate	Crystallization range (minutes) (MQSA 12A method)	mg/KOH/g (MQSA 47A method)	% (MQSA 44 method)	<ul style="list-style-type: none"> • Specially suitable ○ Suitable 			
			170 °C 2.16 Kg	170 °C 21.6 Kg									Footwear	Automotive	Furniture	Primers /others
Pearlbond™ 893	PCL*	91A	60-120		63-67	46	250 - 650	-40	Slow	30 ± 5	<3	<0.15	•		•	•
Pearlbond™ 508	PCL	93A		40-90	73-77	59	3500 - 4280	-40	Slow	20 ± 3	<3	<0.15	•			•
Pearlbond™ 580	Polyester	50D	10-30		65-71	55	870 - 3200	-41	Fast	16 ± 2	<3	<0.15	•			•
Pearlbond™ 550	PCL Copolymer	54D	10-30		66-70	55	870 - 3200	-41	Fast	12 ± 2	<3	<0.15	•		•	
Pearlbond™ 500	PCL	51D	15-30		64-68	57	870 - 3200	-40	Fast	16 ± 1	<3	<0.15	•		•	
Pearlbond™ 501	PCL	51D	30-60		63-67	58	400 - 900	-40	Fast	16 ± 1	<3	<0.15		○		•
Pearlbond™ 503	PCL	51D	60-100		60-64	55	250 - 400	-39	Fast	16 ± 1	<5	<0.15	○	•		•
Pearlbond™ 522	PCL	54D		105-160	65-69	58	1800 - 4300	-40	Very Fast	10 ± 1	<3	<0.15	•		•	•
Pearlbond™ 520	PCL	54D	15-30		64-68	58	870 - 2000	-40	Very Fast	10 ± 1	<3	<0.15	•		•	•
Pearlbond™ 521	PCL	54D	30-60		63-67	58	400 - 900	-40	Very Fast	10 ± 1	<3	<0.15	•	•	○	•
Pearlbond™ 523	PCL	54D	60-100		60-64	58	250 - 400	-40	Very Fast	10 ± 1	<5	<0.15	•	•	○	•
Pearlbond™ 539	PCL	54D	150-200		58-60	55	120 - 180	-40	Very Fast	9 ± 1	<5	<0.15	•		•	•
Pearlbond™ ECO 590	Polyester	52D	30-60		80-84	65	600 - 2000	-40	Extremely Fast	5 ± 1	<3	<0.15	•	•	•	•

* PCL= Polycaprolactone Copolyester

LUBRIZOL GLOBAL PRESENCE

Our global presence means we have the application and development laboratories (with technical service ability) already in place, as well as worldwide production capabilities and renowned customer service. We are also a specialty producer of performance coatings and other unique products for apparel. Teaming with Lubrizol simplifies a complex global supply chain.

Americas

Lubrizol Advanced
Materials, Inc.
9911 Brecksville Road
Cleveland, Ohio 44141-3201
USAPhone: +1 888 234 2436

Asia

Lubrizol Specialty Chemicals
(Shanghai) Co., Ltd.
10F, Park Center International
1088 Fang Dian Road
Shanghai PRC 201204
Phone: +86 21 3866 0366

Europe, Middle East, India & Africa

Lubrizol Advanced Materials Spain S.L.
Gran Vial, no. 17
08160 Montmeló (Barcelona), Spain
Phone: +34 93 579 9522
Technology Center – Adhesives



To learn more, contact us at engineeredpolymers@lubrizol.com
or visit www.lubrizol.com/Engineered-Polymers

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.
GL-RH-012018



contact us at
<http://go.lubrizol.com/EP>