

Pearlbond™ 700 HMS EXP

TPU

Lubrizol Advanced Materials Spain S.L.

Product Texts

Pearlbond™ 700 HMS EXP (EZ44-41-B) is a linear, aromatic thermoplastic polyurethane available in pellets. It combines an **extremely fast crystallization rate** together very **high melt strength and superb chemical resistance**.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	7.5	g/10min	ISO 1133
Temperature	170	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	70	MPa	ISO 527
Stress at 100% elongation	19	MPa	ISO 527
Stress at 300% elongation	30	MPa	ISO 527
Strain at break TPE	435	%	ISO 527
Shore A hardness	97	-	ISO 7619-1

Other properties	Value	Unit	Test Standard
Density	1250	kg/m ³	ISO 1183

Processing Recommendation Extrusion	Value	Unit	Test Standard
Type of extrusion	film	-	-
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	1	h	-
Zone 1	150 - 170	°C	-
Zone 2	180 - 200	°C	-
Zone 3	170 - 190	°C	-
Zone 4	160 - 180	°C	-
Nozzle temperature	150 - 170	°C	-

Characteristics

Processing

Film Extrusion

Delivery form

Pellets

Features

High Crystallinity, Melt Strength

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe