

EnLast 80576



TPE

Product Description					
Easy processing TPE 65 Shore A with UV					
General Properties					
Appearance	Black, Natural, All Colors				
Processing Methods	Injection Molding and Extrusion				
Applications	Automotive, Appliance, General Industrial				
Mechanical Properties	Test Method	English Units		S.I. Units	
Shore Hardness, 10 second delay	ASTM D2240	65 A		65 A	
Specific Gravity	ASTM D792	1.05	sp gr	1.05	sp gr
Tensile Strength	ASTM D412A	1,037	psi	7,150	kPa
Tensile Elongation at Break	ASTM D412A	714	%	714	%
300% Modulus	ASTM D412A	429	psi	2,958	kPa
Tear Strength	ASTM D624	415	pli	73	kN/m
Thermal Properties	Test Method	English Units		S.I. Units	
Viscosity at 210 °C, 10,994 sec-1	ASTM D3835	7,400	cPs	7.4	Pa·sec
Injection Molding		English Value		SI Value	
Suggested Maximum Moisture		0.05%		0.05%	
Rear Barrel Temperatures		340 - 370 °F		171 - 188 °C	
Middle Barrel Temperatures		350 - 380 °F		177 - 193 °C	
Front Barrel Temperatures		360 - 410 °F		182 - 210 °C	
Nozzle Temperature		360 - 420 °F		182 - 216 °C	
Melt (processing) Temperatures		360 - 400 °F		182 - 204 °C	
Injection Rate		Fast		Fast	
Back Pressure		0 - 150 psi		0 - 1,034 kPa	
Screw Speed		100 to 200 rpm		100 to 200 rpm	
Screw L/D Ratio		15:1 - 20:1		15:1 - 20:1	
Screw Compression Ratio		1.5:1 - 2.5:1		1.5:1 - 2.5:1	
Mold Temperature		60 - 100 °F		16 - 38 °C	
Clamp Tonnage		3 to 5 tons/in ²		34 to 69 MPa	
Cushion		0.125 to 0.250 in		3.18 to 6.35 mm	
Vent Depth		0.0010 in		0.03 mm	

These Data Sheet Values are Typical Values and are not intended for specification purposes. These values should only be used as a guide and no assurances by EnCom, Inc. can be granted that all molded articles will exhibit duplicate properties as those listed above. Each material user should perform their own testing for suitability.