

DynaChar™ 2436-TH

Thermoplastic Polyurethane Elastomer

Polymer Dynamix

Message:

- Flame Retardant TPU
- Features:
 - Excellent Chemical Resistance
 - Low Temperature Properties
 - Good Processability
- Applications:
 - Wire & Cable
 - Industrial
 - Automotive

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Processability		
	Low Temperature Impact Resistance		
	Low Temperature Strength		
	Low Temperature Toughness		
Uses	Automotive Applications		
	Industrial Applications		
	Wire & Cable Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13 to 15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	23.8	MPa	ASTM D790
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	76.7 to 87.8	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	182 to 193	°C	

Middle Temperature	191 to 202	°C
Front Temperature	199 to 210	°C
Nozzle Temperature	199 to 210	°C
Processing (Melt) Temp	199 to 210	°C
Mold Temperature	10.0 to 37.8	°C
Injection Pressure	68.9 to 138	MPa
Injection Rate	Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Clamp Tonnage	5.5 to 8.3	kN/cm ²

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