

## DuPont Performance Polymers Hytrel® DYM250S BK472 TPC-ET (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyester Thermoplastic Elastomer

### Material Notes:

Hytrel® DYM250S BK472 is a medium modulus resin suited for injection molding of Air Bag Deployment Doors. It has a nominal durometer hardness of 49D and contains fine particle size carbon black. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-DYM250S-BK472-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-DYM250S-BK472-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294-4
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 240 °C	15 g/10 min @Load 4.76 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 49	<= 49	ISO 868
	46 @Time 15.0 sec	46 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	10.0 MPa @Strain 10.0 %, Temperature 23.0 °C	1450 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	13.0 MPa @Strain 50.0 %, Temperature 23.0 °C	1890 psi @Strain 50.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	>= 300 % @Temperature 23.0 °C	>= 300 % @Temperature 73.4 °F	ISO 527 (1BA bar)
	500 % @Temperature 23.0 °C	500 % @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Modulus	0.230 GPa	33.4 ksi	ISO 527

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Flexural Modulus	0.250 GPa	36.3 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	50.0 °C	122 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °F	ISO 75-1/-2
Brittleness Temperature	-100 °C	-148 °F	ISO 974

Processing Properties	Metric	English	Comments
Melt Temperature	245 °C	473 °F	Optimum; Injection Molding
	240 - 250 °C	464 - 482 °F	Injection Molding
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
	45.0 - 55.0 °C	113 - 131 °F	Injection Molding
Drying Temperature	110 °C	230 °F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.050 %	<= 0.050 %	Injection Molding

Descriptive Properties	Value	Comments
Additive	Antioxidant	
Appearance	Black Color	
Features	Creep Resistance, Good	
	Flexibility, Low Temperature	
	Hardness, Medium	
	Impact Resistance, Low Temp.	
Forms	Pellets	
Generic	TPC-ET	
Material Status	Current	

Descriptive Properties	TPC-ET+PBT Value	Comments
Processing Method	Injection Molding	
Product Category	Air Bag Door Resins	
Region Available - Global	Yes	
Resin Identification	TPC-ET+PBT	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive	
	Automotive, specially tailored for ABDD (air bag deployment)	

## Contact Songhan Plastic Technology Co.,Ltd.

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