

Dow Pellethane® 2354-55D Polyurethane Elastomer, Polyester Polycaprolactone Based (discontinued **)

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

Material Notes:

PELLETHANE® 2354-55D is elastomer is a polyester polycaprolactone based polyurethane elastomer used in automotive applications. It allows fast molding, and once molded can be painted with polyurethane and acrylic enamels or water based elastomeric paints without a primer. Data provided by Dow Chemical. This product is no longer a part of the PELLETHANE® product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Pellethane-2354-55D-Polyurethane-Elastomer-Polyester-Polycaprolactone-Based-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	
Melt Flow	22 g/10 min	22 g/10 min	
	@Load 2.16 kg, Temperature 224 °C	@Load 4.76 lb, Temperature 435 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	
Tensile Strength at Break	37.9 MPa	5500 psi	Tensile stress at break.
Elongation at Break	460 %	460 %	
50% Modulus	0.0110 GPa	1.60 ksi	
100% Modulus	0.0121 GPa	1.75 ksi	
300% Modulus	0.0248 GPa	3.60 ksi	
Secant Modulus	0.138 GPa	20.0 ksi	2% Secant Modulus
Tear Strength	149 kN/m	850 pli	
Taber Abrasion, mg/1000 Cycles	40	40	H22 Wheel
Compression Set	30 %	30 %	23°C.
	33 %	33 %	
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	80 %	80 %	Elongation set after break

Thermal Properties	Metric	English	Comments
CTE, linear	135 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	75.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Vicat Softening Point	121 $^\circ\text{C}$	250 $^\circ\text{F}$	
Clash Berg Stiffness Temperature	-5.00 $^\circ\text{C}$	23.0 $^\circ\text{F}$	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China