

Dow PELLETHANE® 2355-55DE Polyurethane Elastomer, Polyester Polyadipate Based (discontinued **)

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

Material Notes:

Description: PELLETHANE® 2355-55DE polyester polyadipate based polyurethane elastomer has excellent oil and chemical resistance.

Applications include: Film, Sheet, Tubing, Recreation and sporting equipment, Industrial hoses, Fabric lamination, Sewer pipe linings,

FootwearData provided by Dow Chemical.Lubrizol acquired the Pellethane product line from Dow in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-PELLETHANE-2355-55DE-Polyurethane-Elastomer-Polyester-Polyadipate-Based-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.013 cm/cm	0.0090 - 0.013 in/in	plaque
	@Thickness 1.59 mm	@Thickness 0.0625 in	
Melt Index of Compound	24 g/10 min	24 g/10 min	ASTM D1238
	@Load 8.70 kg, Temperature 190 °C	@Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	49 - 57	49 - 57	ASTM D2240
Tensile Strength, Ultimate	41.4 MPa	6000 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
50% Modulus	0.00930 GPa	1.35 ksi	ASTM D412
100% Modulus	0.0121 GPa	1.75 ksi	ASTM D412
300% Modulus	0.0248 GPa	3.60 ksi	ASTM D412
Flexural Modulus	0.165 GPa	24.0 ksi	ASTM D790
Tear Strength	114 kN/m	650 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	60	60	H-22 wheel (coarser); ASTM D1044
Compression Set	25 %	25 %	22 hrs. @ 77°F (25°C); ASTM D395, Method B
	35 %	35 %	22 hrs.; ASTM D395, Method B
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set			Elongation Set After Break; ASTM

Mechanical Properties	80 % Metric	80 % English	D412 Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	107 °C	225 °F	ASTM D1525
Processing Properties	Metric	English	Comments
Processing Temperature	199 - 216 °C	390 - 421 °F	Optimum Extrusion Temperature
Melt Temperature	204 - 221 °C	399 - 430 °F	

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