Product Information

Ultramid® 8350 HS
Polyamide 6

BASF
The Chemical Company

Product Description

Ultramid 8350 HS is a heat stabilized, impact modified type 6 graft copolymer developed for extrusion, tubing, and jacketing applications requiring a high level of toughness combined with a moderate level of flexibility. It is also available in non-heat stabilized (Ultramid 8350) and/or pigmented versions.

Applications

Ultramid 8350 HS is generally recommended for applications such as automotive vacuum tubing, cable jacketing, and high pressure and hydraulic hoses.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.07	
Moisture, %	62		
(24 Hour)		1.1	
(50% RH)		1.9	
(Saturation)		6.7	
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
-40C		2,150	-
23C		1,800	675
80C		210	-
121C		150	-
Tensile stress at yield, MPa	527		
-40C		85	95
23C		53	32
80C		20	-
121C		14	-
Tensile strain at yield, %	527		
23C		5	9
Nominal strain at break, %	527		
23C		>50	>50
Flexural Strength, MPa	178		
23C		50	-
Flexural Modulus, MPa	178		
23C		1,750	-
IMPACT	**ISO Test Method**	**Dry**	**Conditioned**
Charpy Notched, kJ/m^2	179		
23C		100	-
-30C		15	-
Charpy Unnotched, kJ/m^2	179		
23C		N	-
THERMAL	**ISO Test Method**	**Dry**	**Conditioned**
Melting Point, C	3146	220	-

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HDT A, C	75	51	-
ELECTRICAL	**ISO Test Method**	**Dry**	**Conditioned**
Comparative Tracking Index	IEC 60112	600	-
Volume Resistivity	IEC 60093	>1E13	-
UL RATINGS	**UL Test Method**	**Property Value**	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		65	
Mechanical w/ Impact, C		65	
Electrical, C		65	