

UBESTA XPA 9055 X1

Polyamide 12 Elastomer

UBE Engineering Plastics, S.A.

Message:

UBESTA XPA 9055 X1 is a thermoplastic polyamide elastomer offering enhanced material properties and good process-ability in injection moulding and extrusion application.

General Information			
Features	Resilient recovery, excellent		
	High elasticity		
	Workability, good		
	Good chemical resistance		
	Hydrolysis resistance		
	Definition, high		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.70	%	ISO 294-4
Flow direction	0.40	%	ISO 294-4
Water Absorption (23°C, 24 hr)	2.4	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	40		ISO 2039-2
Durometer Hardness (Shore D)	54		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	11.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	27	%	ISO 527-2
Fracture	400	%	ISO 527-2
Flexural Modulus	150	MPa	ISO 178
Flexural Stress	9.00	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	10	kJ/m ²	ISO 179/1eA

23°C	64	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	53.0	°C	ISO 75-2/B
Melting Temperature (DSC)	154	°C	ISO 3146
CLTE - Flow	2.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	IEC 60093
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Tensile Strain at Break, ISO 527: >400% Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 5 mg

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