

Pebax® Rnew 55R53 SP 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® Rnew 55R53 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. This SP grade has been developed to be heat and UV resistant.

General Information			
Features	Good UV Resistance		
	High Heat Resistance		
	Renewable Resource Content		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 24 hr, 4.00 mm	1.0	%	
Flow : 24 hr, 4.00 mm	1.0	%	
Water Absorption			ISO 62
23°C, 24 hr	1.5	%	
Equilibrium, 23°C, 50% RH	0.70	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness ²			ISO 868
Shore D	53		
Shore D, 15 sec	51		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³ (Break)	45.0	MPa	ISO 527-2
Tensile Strain ⁴ (Break)	> 400	%	ISO 527-2
Flexural Modulus ⁵	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	156	°C	ISO 306
Melting Temperature	167	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Content	62 to 66	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	65.0 to 75.0	°C	
Drying Time	4.0 to 8.0	hr	
Processing (Melt) Temp	200 to 270	°C	
Mold Temperature	25.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	65.0 to 75.0	°C	
Drying Time	4.0 to 8.0	hr	
Melt Temperature	210 to 230	°C	

NOTE

1. Mold at 40°C
2. Samples conditioned 15 days at 23°C - 50 % R.H
3. Samples conditioned 15 days at 23°C - 50 % R.H
4. Samples conditioned 15 days at 23°C - 50 % R.H
5. Samples conditioned 15 days at 23°C - 50 % R.H

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